INSTITUTE OF HORTICULTURAL SCIENCES MULTIPLE CHOICE QUESTIONS FOR ENTRY TEST

MULTIPLE CHOICE QUESTIONS FOR ENTRY TEST The edible part of potato is: 1. Root **Tuber** b. c. Rhizome d. Corm Vegetable production for local consumption is: 2. a Market gardening Home gardening c Truck gardening d Vegetable forcing **3.** Foliage plants with extremely tender and watery stem are: a. Herb b **Succulents** Vine c Runner d 4. Most of the summer vegetables are: a. Annual b. Biennial c. Perennial d. None 5. Summer vegetables can be grown out of season in a climatic region: **Lower Sindh** Upper Sindh b. Southern Punjab c. Northern Punjab In seed formation the inner integument remains thin and develops into: 6. Testa **Tegmen** Aril b. c. Hilum 7. During seed formation, a sear left by the funiculus is termed as a. Hilum b. Funiculus c. Operculum d. Raphe Cracking in tomato fruit is due to: 8. High nitrogen level Temperature fluctuations b. c. Soil moisture fluctuations d. All of these 9. Endosperm like tissue (2n) in seed developing from nucellus is: e. Endospem Cotyledom g. Perisperm h. Mericarp Orthodox seeds after dissemination may be 10. a. None dormant b. Dormant c. Quiescent All of above Reduction or elimination of dormancy in crop plant is due to: 11. a. Domestication b. Hybridization c. Mutation

12. Dormancy due to factors within the embryo is:

Acclimatization

- b. Exogenous
- c. Combination
- d. None of above

13. Secondary dormancy in non dormant seeds is due to:

- a. Temperature
- b. Moisture
- c. Aeration
- d. Light

14. Germination of undeveloped seeds is favored by:

- Warm temperature (>20°C)
- b. Gibberallic acid
- c. Low temperature (<20°C)
- d. a & b

During stratification, the most important factor is: 15.

- a. Temperature
- b. Duration
- c. Media
- All of above

Stage at which seed achieves it maximum dry weight and has maximum germination 16. potential and vigor is:

- a. Physiological maturity
- b. Edible maturity
- c. Harvest maturity
- d. None of above

17. Seed vigor is affected by

- Time of storage
- Type of seed stored
- c. Storage environment
- d. All of above

18. Tetrazolium test to check seed viability is

- a. Chemical test
- b. Enzyme test
- c. Germination testd. a & c

19. Researchers describe seed moisture contents in terms of:

- Dry weight
- b. Wet weight
- c. Percent weight
- d. a & b

20. Controlled inhibition of seed is termed as:

- a. Priming
- b. Soaking
- c. Chilling
- d. None of above

Celery and lettuce at high temperature become 21.

- a. Photodormant
- b. Thermodormant
- c. Ecodormant

22.

d. Non dormant

Excessive soil moisture, late in the season cause.

- a. Decrease in TSS decrease in dry matter
- b. Increase in TSS decrease in dry matter
- c. Decrease in TSS increase in dry matter
- d. None of above

23.	Most of following category crops are shallow rooted a. Summer b. Winter
	c. Off season d. All of above
24.	Deep rooted vegetables require:
	a. Less frequent irrigation
	b. More water at each irrigation
	c. Both a & b
	d. None of above
25.	Fruit of following vegetables is edible: a. Summer
	a. Summer b. Winter
	c. Cruciferous
	d. All of above
26.	Mulches are mainly used to reduce
	a. Transpiration
	b. Evaporation
	c. Evapotranspirationd. All of above
	d. All of above
27.	What type of mulches reduce soil temperature? a. Organic mulch
	b. Gray polythene
	c. Black polythene
	d. Transparent polythene
28. olants.	For hybrid seed production flowers are completely suppressed on female
	a. Staminate
	b. Pistillate
	c. Staminode
	d. Alternate
29.	Recommended cucumber cultivars under tunnel production technology are:
	a. Monoeciousb. Gynoecious
	c. Andromonoecious
	d. Gynomonoecious
30.	Flowering in water melon is unaffected by light duration as it is:
	a. Short day long night plant
	b. Long day short night plant
	c. Day neutral plant
	d. None of the above
31.	Nature of pollination in cucurbits is:
	a. Highly cross pollinated
	b. Oftenly cross pollinated
	c. Highly self pollinated
	d. None of above
32.	Ginger is commonly cultivated as:
	a. Annual
	b. Biennialc. Perennial
	c. Perennial d. Biannaul
	u. Diamitati
33.	Cross pollination is essential in following type of vegetables.
33.	a. Monoecious
33.	a. Monoeciousb. Dioecious
33.	a. Monoecious

34. Cross pollination in plants bearing bisexual flowers is due to a. Dichogamy b. Herkogamy c. Heterostyly d. All of above **35.** In anemophilous plants, pollens are disseminated by means of: a. Insects b. Water c. Wind d. Gravity **36.** In pollen development Gametocides induces a problem of: a. Sterility Viability b. c. Fertility d. Mobility **37.** Production of seeds without fertilization is termed as: a. Parthenocarpy b. Parthenogenesis c. Gametogenesis d. All of above 38. Most of the hybrid watermelon and cucumber are: Triproid b. Diploids c. Aneuploids d. Colchiploids **39.** Removal of off type plants from a seed field is termed as: Weeding b. Rouging c. Hoeing d. All of above 40. The most important seed component affecting seed /viability during storage is: a. Temperature b. Humidity Moisture d. Food reserves Potato is generally propagated through 41. a. Seed potato b. Potato seed True Potato Seed C. d. All of above 42. Isolation during seed production is done by: Types (Varieties) b. Plantation at a distance c. Zoning d. All of above 43. The most common pollinator insect in Pakistan is a. Syrphid fly b. Bumble bees c. Honey bees d. House fly Seed production in biennial vegetables is mostly done by: 44. a. Seed to seed method

b. In situ methodc. Replanting methodd. All of above

45.	Male sterily is not due to
	a. Genetic factor
	b. Genome factor
	c. Cytogenetic factor
	d. Nutritional factor
46.	Hybrid vigor in vegetables is manifested by
	a. High yield
	b. Uniformity in size
	c. Uniformity in maturity
	d. All of above
47.	Water melon for seed should be harvested when
	a. Tendrils wither
	b. Skin color is green
	c. Skin color is pale yellow
	d. Vine dry out
48.	In Pakistan, vegetables for seed production are harvested by:
	a. Manual method
	b. Machines
	c. Combine harvestors
	d. All of above
49.	During storage of vegetable seeds, seed moisture should be
	a. Less than 10%
	b. Equal to 10%
	c. Greater than 10%
	d. None of above
50.	The poorest seed storage capacity is in:
	a. Okra
	b. Peas
	c. Cucurbits d. Onion
	d. Onion
51	Nitrates are absorbed at pH below:
	a. 5
	b. 6
	c. 7 d. 8
50	T
52.	Hormones which control apical dominance are:
	a. Auxins
	b. Cytokinins
	c. Gibberellins
	d. Polyamines
53.	Tetraploid watermelon must be pollinated by plants to produce a seedless
water	
	a. Triploid b. Aneuploid
	c. Diploid
	d. Tetraploid
54.	Which vegetable cannot be grown as an off season vegetable: a. Tomato
	b. Potato
	c. Chillies
	d. Cucumber
55	Lower temperature than normal convert male flowers into perfect flowers in:
	a. Date palm
	b. Mango
	c. Papaya
	d. Citrus

56.	Tomato is a crop. a. Self pollinated
	b. Insect pollinated
	c. Oftenly cross pollinated
	d. Wind pollinated
	o. The political
57.	Turmeric is propagated by:
	a. Corms
	b. Seed
	c. Rhizome
	d. Bulb
50	Sweet water is www.co.to.l.h.w.
58.	Sweet potato is propagated by: a. Stem cuttings
	b. Tubers
	c. Roots
	d. a & b
59.	Self pollination is a form of:
	a. Inbreeding
	b. Out breeding
	c. Random mating
	d. None of these
60.	Cross pollination is associated with:
00.	a. Cleistogamy
	e. Chasmogamy
	a. Dichogamy
	b. Apogamy
<i>C</i> 1	Completion of mellineties and fortilization in uncommed flamou had is toward as
61.	Completion of pollination and fertilization in unopened flower bud is termed as a. Chasmogamy
	a. Chasmogamy b. Apogamy
	f. Cleistogamy
	c. Dichogamy
	0. 2.0y
62.	Maturation of anthers and stigma at the same time refers to:
	g. Homogamy
	a. Chasmogamy
	b. Cleistogamy
	c. Dichogamy
63.	Fertilization after opining of flower refers to:
	a. Cleistogamy
	h. Chasmogamy
	b. Homogamy
	c. Herkogamy
<i>(</i>	
64.	Male sterility promotes:
	a. Autogamy
	b. Allogamy
	c. Homogamy i. Chasmogamy
	1. Chashioganiy
65.	Exposure of seed to low temperature before germination is termed as:
	a. Scarification
	j. Stratification
	b. Vernalization
	c. All of above
66.	Imbibed or germinated seeds subjected to cold temperature is termed as:
00.	a. Scarification
	b. Startification
	k Voynelization

c. Sterilization

67. Which of following vegetable does not require specific low temperature before flowering: Beetroot a. b. Cabbage Onion c. **Brinjal** 68. Edible part of cauliflower is: **Flowers** b. Flower bud m. Vegetative bud c. Inflorescence 69. Edible portion of cabbage is Terminal bud n. Leaves b. Leaves + inflorescence c. All of above 70. Cole crops are: o. Hardy a. Half hardy b. Non hardy c. Semi hardy Which of the following crop has lowest water contents: 71. b. Cucumber Watermelon c.

d. Bottle gourd p. Cauliflower

Sugar baby Red beauty b. Red king Sugary

Summer season Rainy season b. Early season c. Late season

s. Potatoes a. Peas b. Beans Okra

a. Cucurbitacin **Capsaicin**

All of above

b. Allicin

a. Chilies **Tomato**

b. Onion Brinjal

a. Onion b. Cabbage c. Bitter gourd v. Spinach

u.

The commercial variety of watermelon is:

Vine of crop of bottle gourd is not staked during:

Which one is not the best source of protein?

Which crop is most susceptible to viral infection:

Which of the following vegetable has a dioecious behaviour:

The cause of hotness in Chillies is:

72.

73.

74.

75.

76.

77.

78. Consecutive use of garlic will reduce the level of: w. Cholesterol a. Sugar b. Uric acid c. None of above **79.** Bulb production in onion is dependent upon: a. Temperature b. Soil moisture x. Day length c. All of above 80. Red colour of carrot is due to: a. Lycopene y. Carotene b. Anthocyanin c. Propanene 81. Colour of carrot roots is affected by: a. Soil temperature Soil moisture b. Soil texture c. All of above **82.** Radish belongs to family: aa. Cruciferae a. Umbelliferae b. Leguminoseae c. Poaceae 83. For an early harvest, cucurbits are grown on: a. Rocky soils b. Sandy soils c. Clayey soils d. Organic soils 84. Tomato fruit is botanically a: a. Berry b. Pome c. Drupe d. Hip 85. The portion of axis below the cotyledons in seed is: a. Micropyl b. Hypocotyl c. Epicotyl d. None of above 86. Which type of flowers can not produce seeds and / or fruit? a. Pistillate b. Perfect Hermaphrodite c. Staminate 87. Degeneration of above ground parts in ginger is due to a.Senescence b. Maturity c.Partial senescence d.Over ripening 88. In spinach, pollination takes place by means of: a. Water b. Insects c. Birds

d. Wind

89. Tender crop cannot tolerate a minimum temperature of a. -2°C b. -1°C c. 0°C d. All of above 90. Optimum temperature for cool season vegetables is: a. 25-30°C b. 25-27°C 18-24°C c. 15-20°C d. 91. Which one is not an appropriate approach to control frost? **Avoidance** Reduction of heat loss c. Addition of heat Transmittance of control 92. Tomato, chillies and brinjal are grouped as a. Cole crops b. Fruit crops Solanaceous crops d. Summer crops 93. Color development in tomato fruit is due to a. Lycopene b. Carotenoid c. Polypropylene d. All of above 94. Cucurbits consumed at immature stage are grouped under: Summer squashes Winter squashes Gourds d. Pumpkins 95. Almost all vegetables are dioeceous with respect to flower. a. Summer Winter b. Both of these d. None of these 96. Term vine yard is used for: **Grape plantation** a. b. Citrus plantation c. Mango plantation d. None of these 97. Term viticulture is used for: **Grape cultivation** b. Citrus cultivation c. Mango cultivation d. None of these

Home gardening deals with vegetable production for:

Truck gardening means vegetable production for:

a. Home consumptionb. For local market

d. All of these

a. Distant placesb. Industryc. Local marketd. None of these

At commercial level

98.

99.

100	Tip burn of lettuce occurs at high air temperature when the soil is:		
.00	a. Cool		
	b. Dry		
	c. Hot		
	d. Wet		
01.	Organic crop cultivation is :		
01.	a. With fertilizers		
	b. Without fertilizers		
	c. With organic manures		
	d. None of these		
02.	Thinning in vegetables is practiced to maintain:		
	a. Plant x Plant distance		
	b. Line x Line distance		
	c. Both of these		
	d. None of these		
03.	Transplanting means		
	a. Shifting of seedlings		
	b. Shifting of large plants		
	c. Shifting of potted plants		
	d. All of these		
04.	Shrubs fall in the category of		
	a. 7-15 feet high		
	b. 25 feet high		
	c. More than 25 feet		
	d. None of these		
05.	Deciduous plants are mostly grown in		
	a. Hilly area		
	b. In plains		
	c. Along rivers		
	d. None of these		
06.	Vine mean climbing/trailing plants with		
	a. Herbaceous stem		
	b. Woody stem		
	c. Both of these		
	d. None of these		
107.	Monoecious plants have male and female sexes/flowers on		
	a. Same plant		
	b. Different plants		
	c. Both of these		
	d. None of these		
08.	Hardy crops /plants are acclimatized against		
	a. Frost		
	b. Extreme heat		
	c. Both of these		
	d. None of these		
09.	True fruits developed from		
	a. Ovary		
	b. Thalamus		
	c. Pericarp		
	d. All of these		

Drupe fruits have all the three ovarian layers a. Fused

110.

b. Separatedc. Mixedd. None of these

111. Creeping vegetables crops are grown on a. Beds b. Ridges c. Flats d. All of these

112. Mango is a

- e. **Drupe fruit**
- a. Pome fruit
- b. Berry fruit
- c. Aggregate fruit

113. Citrus is a special type of

- f. Berry
- a. Pome
- b. Drupe
- c. None of these

114. Dicots could be identified on the basis of:

- g. Reticulate leaf venations
- a. Parallel venations
- b. No leaf venations
- c. None of these

115. In binomial nomenclature system, 1st name is:

- h. Genus name
- a. Spp. name
- b. Family name
- c. Sub. Family name

Most of the summer vegetables belong to family:

- a. Solanaecae
- i. Cucurbitaceae
- b. Malvaceae
- c. Poaceae

117. Cultivar means

116.

- j. Some cultivated variety
- a. Discarded variety
- b. Rejected variety
- c. Approved variety

118. Pears and beans are rich source of:

- a. Carbohydrates
- k. Protein
- b. Both
- c. None of these

119. Potato and sweet potato are well known for

- 1. Carbohydrates
- a. Proteins
- b. Vitamins
- c. All of these

120. Leafy vegetables provide

- m. Iron
- a. Carbohydrates
- b. Protein
- c. None of these

121. Iron is a carrier of

- n. Oxygen
- a. CO_2
- b. Both of these
- c. None of these

Vitamin A is effective against Night blindness Beri beri disease Gum problems None of these

123. Carrot is a rich source of vitamin:

- p. Vitamin A
- a. Vitamin C
- b. Vitamin D
- c. Vitamin E

124. Cole crops are comprised of:

- a. Cauliflower
- b. Cabbage
- c. Knol Khol
- q. All of these

125. Salad crops are

- a. Lettuce
- b. Radish
- c. Cabbage
- r. All of these

126. Which of the following crop is grown sexually

- a. Potato
- b. Garlic
- s. Onion
- c. Turmeric

127. Tomato varieties are mainly:

- a. Indeterminate type
- b. Determinate type
- t. Both types
- c. None of these

128. Fertigation refers to the application of fertilizer with

- u. Water
- a. Rain
- b. Both of these
- c. None of these

129. In hydroponic system plants are grown in

- v. Water
- a. Soil
- b. Sand
- c. Gravels

130. Through drip we can provide

- a. Water
- b. Fertilizer
- w. Both of the above
- c. None of these

131. Nitrogen in vegetables is needed for

- x. Vegetative growth
- a. Ripening /maturity
- b. Reproductive growth
- c. None of these

132. Seed potato seed has

- y. **Dormancy**
- a. Rest period
- b. Both of these
- c. None of these

133. Carrot and coriander belong to the family z. Umbelliferae Crucifereae b. Cucurbitaceae c. None of these

134. Potato belong to the family

aa. Solanaceae

- a. Umbelliferae
- b. Cruciferae
- c. None of these

135. Melons belong to the family

- a. Cucurbitaceae
- b. Solanaceae
- c. Crucifereae
- d. None of these

136. Melons have seeds in

- e. Cavity/centre
- a. Scattered
- b. Both type may be
- c. None of these

137. Cantaloupe belongs to the group:

- a. Cucurbits
- f. **Melons**
- b. Gourds
- c. Squashes

138. Hybrid varieties of cucumber grown in tunnels are:

- g. Parthenocarpic
- a. Zygotic
- b. Both types
- c. None of these

139. Staking of vines in rainy season is done to avoid:

- a. Insect attack
- h. Disease attack
- b. Sunscald
- c. None of these

140. Optimum temperature for potato tuber formation is

- i. **20-22°**C
- a. 25-30°C
- b. 22-25°C
- c. All of these

141. Tuber initiation in potato starts after

- j. 7th week
 a. 9th week
- b. 5th week
- c. 4th week

142. Color of carrot depends upon

- a. Age
- b. Variety
- c. Season
- k. All of these

143. Splitting of carrot is due to

- 1. Fresh manure
- a. Heavy fertilizer
- b. Less fertilizer
- c. None of these

144. **High temperature in chillies causes** a. Flower drop

- b. Fruit drop
- m. Both of the above
- c. None of these

Early blight and late blight of potato are 145.

- n. Fungal disease
- a. Viral disease
- b. Bacterial disease
- c. Disorders

146. Potato dormancy can be broken through

- a. Chemical treatment
- b. Low temperature
- o. Both of these
- c. None of these

147. Dormancy period in potato is about

- a. 2 Months
- b. 1 Month
- p. 3 **Months**
- c. ½ Month

Seed rate/acre in potato for autumn crop is 148.

- q. 900-1100 Kg
- a. 500 Kg
- b. 400 Kg
- 100 Kg c.

149.

Potato cut tuber are used for planting during

- Autumn crop
- **Spring crop** r.
- b. Both of above
- c. None of above

150. Hollow heart of potato is a

- a. Disease
- Disorder
- b. Insect attack
- c. Deficiency

151. Potato tubers become green if

- **Exposed** to **light**
- a. Attacked by insect
- b. Infected
- c. None of these

152. Virus free seeds of potato are produced in

- u. Hilly areas
- a. Spring crop
- b. In plains
- c. Autumn crop

153. Okra belongs to family

- v. Malvaceae
- a. Solanaceae
- b. Cucurbitacaea
- c. Chenopodiaceae

154. Desiree and Cardinal are varieties of

- a. Carrot
- w. Potato
- b. Radish
- c. Peas

155. Which of the following vegetable is directly seeded in field: a. Chillies Tomato b. c. Brinjal x. Peas **156.** Buttoning is a disorder of y. Cauliflower a. Peas b. Potato Tomato 157. Production of very small sized heads in cauliflower is called z. Buttoning Belting b. Both of these c. None of these 158. Development of seed stalks earlier in biennial crops is called a. Bolting b. Buttoning c. Greening d. None of these 159. Bolting in biennial crops is due to e. Low temperature exposure a. High temperature exposure b. Both of these c. None of these 160. Quality seed carrot is produced through Seed to seed method Toping in situ method b. **Steeklings** f. c. None of these 161. Bloosom end rot of tomato is due to a. Infection/disease g. Boron/ Ca. deficiency b. Insect attack c. Nutritional deficiency 162. Vegetables belonging to the cross pollinated group is a. Peas b. Tomato c. a & b h. Cabbage 163. White brinjals are commonly grown for: **Ornamental purpose** Salad purpose a. b. a+bc. None of these 164. Tunnels for vegetable forcing are categorized as a. High type b. Low type c. Walk in type All of these j. 165. Storage life of vegetables increased by the use of GA spray at harvesting time k. **50 ppm** a. 100 ppm b. 200 ppm

c. None of above

166. Dormancy of seeds are broken by a. Ethylene b. Water c. None of above **167.** Femaleness in cucumber is induced by: a. GA b. ABA c. IBA m. None of above 168. Maleness in cucumber is induced by: n. GA a. ABA b. IBA c. None of above 169. Plants, protein, RNA, DNA contents are increased by a. Auxins b. Adenine o. Cytokinins c. None of above 170. Most of the cucurbits are: p. Salt tolerant a. Salt sensitive b. a & b c. None 171. Most commonly used growth retardants are q. Phosphon MH a. b. Caumarin c. None of above 172. Alar significantly increased fruit. a. Size b. Color c. Weight r. All of above 173. In green plants light favour the formation of s. Auxin

a. GAb. ABAc. IBA

a. Umbliferaeb. Cucribtaceat. Solanaceaec. Alliaceae

a. After pollination

b. None of above

c. None of above

c. a & b

Without pollination

Potato belongs to the family

Parthenocarpic cucumber develops due to:

Family solanaceae consist of these crops.

v. **Potato, Tomato, eggplant** etc. a. Water melon, muskmelon, cucumber

b. Turnip, Raddish, Carrot etc.

174.

175.

176.

177.	Which crop is reproduced sexually
	a. Ginger
	b. Turmeric
	w. Onion
	c. None of above
178.	Which crop propagated by asexual means:
	x. Sweet potato
	a. Chillies
	b. Cauliflower
	c. None of above
179.	Vegetables which grow during summer
1,,,	a. Turnip, Raddish
	y. Cucumber, watermelon
	b. Cauliflower, Cabbage
	c. None of above
180.	Vegetables which grow during winter
100.	a. Cole crops
	b. Cucurbits
	c. Root crops
	z. a & c
101	The second ships are successful about the second se
181.	These vegetables are mainly raised through nursery : aa. Tomato, Chillies
	a. Cucumber, watermelon
	b. Radish, turnip
	c. None of above
102	V'
183	Viscosity of the cytoplasm increases when temperature is: a. Low
	b. Medium
	c. High
	d. Very High
182.	Which regetables is transplanted without couther hall
104.	Which vegetables is transplanted without earthen ball a. Cucumber,
	b. Watermelon
	e. Cauliflower
	c. None of above
100	
183.	These vegetables are cross pollinated in nature
	f. Cauliflower, cabbage
	a. Spinach, Peasb. Raddish
	c. None of above
	c. None of above
184.	Which vegetable is self pollinated
	g. Peas
	a. Cucumber
	b. Watermelon
	c. Sponge gourd
185.	The Botanical name of sweet pepper is
	a. Capsicum annum
	b. Capsicum fruitesence
	h. Capsicum groosum
	c. None of above
186.	Botanical seed of potato is
	a. Seed potato
	i. Potato seed
	b. None of above
	c. Slips

187.	The origin of the peas is a. Africa j. Asia
	b. America c. Europe
188.	New growth of plants need water for proper development: a. Low
	b. Medium
	k. High
	c. Very High
189.	Which vegetables consist of more concentration of Vit. A 1. Carrot
	a. Fenogreek
	b. Potato
	c. Peas
190.	Which vegetable consist of more Vitamin C contents: m. Tomato
	a. Turnip
	b. Radish
	c. Cauliflower
191.	Which vegetable having high concentration of fats. a. Sweet potato, potato
	b. Water melon, musk melon
	c. Cabbage, Cauliflower
	n. None of above
192.	Which of the family is also named as Nightshade family: a. Alliace
	b. Cucurbitaceae
	o. Solanaceae
	c. None of above
193.	Which one of the following is a bulb crop:
	p. Garlic
	a. Potato
	b. Ginger
	c. Arum
194.	Botanical name of water melon is:
	q. Citrullus lanatus
	a. Citrllus vulgaris
	b. Citnullus fistulosis
	c. None of above
195.	Auxin antagonists compounds interact with auxins as: r. Counteract
	a. Increase
	b. Decrease
	c. None of the above
196.	The compounds which inhibit the activity of auxins are known as:
	a. Auxin antagonists
	s. Antiauxins
	b. Epinostic agent
	c. All of above
197.	Compounds possessing hormone like properties which have small molecular weight,
are ter	med as:
	a. Auxins
	b. Gibberellinst. Kinins
	c. None of these
	t. 1.525 of Mose

198.	Many	in super optimal concentrations also act as growth inhibitors :	
	u. Auxins		
	a. Gibberellins		
	b. Cytokinins		
	c. All of above		
199.	In plants auxin are mainly present in:		
	a. Root tips		
	b. Stem end		
	v. Shoot tips		
	c. Leaf margins		
200.	Direction of plan	nt growth is controlled by:	
	w. Auxins		
	a. Gibberellins		
	b. Kinins		
	c. All of above		
201.	The amount of g	rowth regulators present in naturally parthenocarpic fruits is:	
	x. High		
	a. Low		
	b. Intermediate		
	c. None of abov	e	
202.	Factors involved	in the formation of auxins are:	
	a. Age of apex		
	b. Light		
	c. Zinc		
	y. All of the ab	ove	
203.		cells are promising source of:	
	a. Abscibic acid		
	z. Kinin		
	b. Alar		
	c. Jasminoides		
204.	Auxins have effe		
	a. Delay in flow	rer opening	
	b. Cell division		
		Fpre harvest fruit drop	
	c. All of the abo	ve	
205.		bility to alter the sex of the flowers:	
	a. Auxins		
	b. Gibberellins		
	c. Kinins		
	d. None of abov	e	
206.		release lateral buds from apical dominance :	
	a. Auxins		
	b. Gibberellins		
	e. Kinins		
	a. None of abov	e	
207.		can be retarded by the application of :	
	a. Auxins		
	b. Gibberellins		
	c. Kininsd. Abscicic acid		
	u. Auscicic acid		
208.		nts are the substances which slow down :	
	a. Cell division	on.	
	b. Cell elongationc. a & b	ш	
	d. None of the	ahove	
	a. Profit of tile	10010	

209. Auxin destruction activity is inhibited by: a. Blue light e. Red light a. Green light b. None of the above 210. First and the heaviest flower drop in fruit plants occurs due to: a. Structural defects in the flowers b. Lack of pollination c. Non fertilization f. All of the above 211. Salient factors which contribute to the fruit drop are: a. Embryo abortion b. Seed number of fruit c. Moisture supply g. All of the above 212. Dormancy can be broken by the use of: a. Thiourea b. Ethlene chlorohydrin c. Ethylene acetylene h. All of the above 213. Auxins as herbicides are supposed to be: a. Non toxic to animals and human beings b. Highly selective c. Exert their action at extremely low concentration All of the above 214. Solanum melogena is locally known as: Tomato b. Potato Egg plant j. c. Chillies 215. Why hardening is practiced in vegetables: a. To increase the yield b. To increase fruit colour k. To increase the resistance of the plant c. All of the above 216. At fruit bud differentiation, nitrogen contents are _____: 1. Low a. Medium` b. High c. Very high 217. Word pomum means: m. Fruit a. Vegetable b. Flower c. None of these **Chromose number of citrus is:** 218. a. 8 n. 9 b. 10 c. 11 Parthenocarpy refers to: 219. a. Seedless fruits o. Fruit without pollination b. Seeds without pollination

c. None of above

220. Flower of grapes is technically called as: a. Umbel b. Recemose c. Clyptra d. None 221. Anthesis of grapes complete at: a. Pedicel fall b. Calyx drop e. Cap fall a. None 222. Date palm leaf is called: a. Simple leaf b. Long leaf f. Frond a. Pinna 223. Dioecious, monocot fruit tree is: a. Banana b. Pomegranate g. Date palm a. Papaya Dicot, diecious fruit tree is: 224. h. Papaya a. Date palm b. Mango c. Banana 225. Monocot and monoecious fruit plant is: Banana Papaya a. b. Date palm c. None 226. Tree fruit can tolerate a soil pH in the range of: a. 4.5-8.5 b. 5.5-8.0 c. 5.0-8.0 j. 5.5-8.5 227. Water potential in rhizosphere is measured with: k. Tensiometer a. Hygrometer b. pH meter Thermo meter 228. Grape plant is technically called as: Liana 1. a. Vine b. Creeper c. Bush 229. Guava plant is technically categorized as: m. Bush Tree a. b. Herb c. None 230. Citrus belongs to sub family: a. Citrea b. Clausnea n. Aurantioideae

c. Citrae

231. Citrus fruit is botanically: o. Hesperidium berry a. Pome fruit b. Climacteric fruit

Apple fruit develops from:

- p. Thalamus
- a. Ovary

c. None

232.

- b. Ovule
- c. Pedicel

233. A complete flower has:

- a. 5 whorls
- b. 3 whorls
- c. 2 whorls
- q. 4 whorls

234. Kinnow seed is:

- r. Polyembryonic
- a. Monoembryonic
- b. Multiembryonic
- c. None

235. Apomictic seedlings are also called as:

- s. Nucellar seedlings
- a. Sexual seedlings
- b. Embryonic seedlings
- c. None

236. Cherry is a:

- a. Berry fruit
- t. Stone fruit
- b. Pome fruit
- c. Drupe

237. Seed of strawberry fruit is:

- u. Achene
- a. True seed
- b. Viable seed
- c. Aborted seed

238. Mulberry is a fruit of type:

- a. Multiple
- b. Berry
- v. Aggregate
- c. Peppo

239. The biggest fruit plant containing family is:

- w. Rosaceae
- a. Citrea
- b. Leguminoseae
- c. Vitaceae

240. Chilling injury in plants occurs at a temperature:

- a. <4°C
- x. <5°C
- b. <8°C
- c. <9°C

241. Both Mango and Pistachio belongs to one family:

- y. Anacardiaceae
- a. Mangifera
- b. Gramineae
- c. None

242. Date palm is also called as: z. Feather palm Wild palm b. Century palm c. Domestic palm 243. Green hard stage of date fruit is:

- a. Kimri
- b. Rutab
- c. Doka
- d. Dung

244. Date fruit for curring is harvested at:

- e. Rutab stage
- Tamar stage
- b. Dung stage
- c. None

245. Banana fruit is called as

- f. Finger
- a. Hand
- b. Heart
- c. None

246. Peaches belongs to family

- g. Rosaceae
- a. Rutaceae
- b. Palmaceae
- c. None

247. Kumquat fruit is edible

- h. Whole fruit
- Without peel a.
- b. With seed
- c. None

248. Guava is a rich source of

- a. Vitamin C
- b. Pectin
- c. a & b
- d. Sugar

249. Common rootstock for citrus in Punjab

- Rough lemon i.
- a. Sour orange
- b. Sweet orange
- c. Sweet lime

250. Pruning is a regular practice in date palm variety

- a. Hillawi
- b. Khudrawi
- j. Deglet Noor
- c. Hillini

Excess of N in citrus plant may cause 251.

- a. Leaf drop
- b. Lodging
- k. Flower drop
- c. Fruit drop

252. Alternate bearing is a problem of following fruit crops

- a. Mango
- b. Apple
- c. Citrus
- All of above 1

253. Citrus can tolerate a salinity level a. pH 9.0 m. pH 8.5 b. pH 7.5 c. pH 4.5 254.

Male inflorescence of Cashew nut and Walnut is called

- n. Catkins
- a. Rachis
- b. Cyme
- c. None

"Hari" is a rootstock for 255.

- a. Walnut
- o. Apricot
- b. Mulberry
- c. None

256. Apple bears on

- a. Shoots
- b. Sprigs
- p. Spurs
- c. Twigs

257. Bearing habit of mango is

- q. Terminal
- a. Lateral
- b. Axillary
- c. Basal

258. Polyembryony means

- a. One embryo
- b. Two embryo
- c. More than two embryo
- More than three embryo

259. Head in fire, foot in water is a proverb for

- a. Olive
- b. Coconut
- s. Date palm
- c. None

260. Pears are

- a. Universally self compatible
- Universally self incompatible
- b. Gross compatible
- c. None

261. Quince is a common rootstock for

- Peach a.
- b. Plum
- u. Pear
- c. Pomegranate

Parienth is the fnion of 262.

- a. Calvx and Corolla
- b. Pedicel and Thalamus
- c. Stamen and Stigma
- d. Style and Ovary

263. Spur is defined as

- a. Mature productive wood
- b. Inmature juvenile wood
- c. a & b
- e. Mature wood with rosette head

264. Chimera refers to f. Somatic cell fusion a. Gametic cell fusion b. Undiffereciated cell c. None

265.

Metaxenia is the impact of

- a. Pollen on seed
- g. Pollen on fruit
- b. Pollen on ovule
- c. Pollen on ovary
- or remained of any

266. Senescence is a stage of

- h. Tissue decay
- a. Tissue multiplication
- b. Tissue vigour
- c. Tissue ripening

267. Rest is a natural process in

- a. Seed
- i. Seed & plant
- b. Plant
- c. Tropical plant

268. Dormancy in plant and seed is mainly due to

- a. Environmental factor
- b. Physiological factor
- c. a & b
- d. None

269. Petiole is a main part of

- a. Flower
- j. Leaf
- b. Inflorescence
- c. Twig

270. Micropyle is an opening in

- a. Stomata
- k. Seed
- b. Ovary
- c. Flower

271. Skirt in date palm fruit is

- a. Exocarp
- b. Merocarp
- 1. Endocarp
- c. Seed

272. Recommended matrix height in citrus is

- a. 4 inches
- b. 6 inches
- m. 9 inches
- c. 12 inches

273. Common rootstock used for sweet orange in NWFP.

- n. Sour orange
- a. Rough lemon
- b. Citrumello
- c. None

274. Berry splitting in citrus and strawberry is due to

- o. High temperature
- a. Low moisture
- b. High sunlight
- c. High air pressure

275. Mango varieties in Pakistan are p. Monoembryonic a. Polyembryonic b. Mono to Polyembryonic c. None 276. Asexually apple rootstocks is raised by a. Grafting b. Budding q. Stoolingc. Layering 277. Lemons and limes can also be propagated by a. Layering b. Cuttings c. a & b d. None 278. Common rootstocks for apple in Pakistan a. M-7 b. M-9 Crab apple r. c. Sky spur 279. Systematic pomology deals with a. Commercial fruit production s. Nomenclature b. Domestic production c. Export production 280. The Genus Fortunella include: a. 7 spp. b. 6 spp. c. 5 spp. t. 4 spp. 281. Genus Poncirus has u. 1 spp. a. 3 spp. b. 6 spp. 16 spp. c. Best time of propagation of fruit plants in sub tropical region is: 282. v. Spring season Spring & autum season a. b. Summer season c. Summer and winter season 283. Major insect attacking the summer crop of guava during summer crop is: a. White fly b. Fire fly w. Fruit fly c. Drosophilla fly 284. **Grapevine needs:** x. Bulk pruning a. Light pruning b. Moderate pruning c. No pruning 285. A self supporting vine type stem is called. a. Vine b. Shrub c. Herb

y. Liana

286. Edible part of pomegranate is a. Seed Vesicles c. Mesocarp a. Aril 287. Apple and pears are classified as a. Drupe b. Pome b. Berry c. Hesperidium Nut fruits are derived from 288. a. Epigynous flower **Hypogynous flower** b. Perigynous flower c. Hypo and perigynous flower 289. Strawberry is a fruit of type. d. Multiple Achene b. Berry c. Aggregate The coldest region for citrus growing is 290. e. U.S.A. f. **New Zealand** a. Australia b. Pakistan 291. The three important genera of Anacardiaceae family are. Mangifera, Pistacia and Cocos b. Eugenia, Anacardium, Pistacia g. Pistacia, Mangifera, Anacardium c. Psidium, Aurantium, Mangifera 292. Chromosome number of mango are h. n=20a. n=17b. n=8 c. n=11293. Unfertile stamens of mango are called. a. Sterile b. Indehiscent **Staminoides** i c. Pistilloids 294. Mango flower carries fertile stamens which are. One j. One or two a. Three b. c. One or three 295. Low temperature regime in summer which stops growth of mango is: a. 35°F b. 30°F 20°F c. k. 18°F 296. Canary date differs from cultivated date in Length of fronds m. Arrangement of pinnus n. Thickness of stem o. Area of origin

297. Wild dates (P. sylvestris) is important due to a. Nutritious fruit b. Sweetness of fruit c. Sugar production p. Medicinal value. **298.** Maximum production of date palm is in: a. Iran b. Algeria c. U.S.A. q. Iraq 299. Apple belongs to the family Ancardiaceae b. Palmaea c. Rutaceae r. Rosaceae 300. Apple is a fruit of s. Temperate region a. Sub tropical b. Tropical Temperate and sub tropical Apple flower has carpels like 301. Five t. a. Six b. Seven c. One 302. Date growth does not cease if temperature does not fall below: a. 0°C. 10°C b. u. 18°C a. 20°C 303. Seedless date palm variety is: v. Hassaku a. Hillai b. Ajwa c. None 304. Pruning is carried out in date palm variety: w. Deglet Noor a. Hillawi b. Khudrawi c. Ajwa 305. Date palm propagation is by means of: x. **Suckers** Seeds a. b. Off shoots c. None 306. Mushroom seed is called: y. Spawn

a. Seedb. Buttonc. None

a. On soilb. Hydroponicz. Dead massc. On trees

Mushroom are cultivated on:

307.

308. Banana plants are infected with: aa. Banana bunchy top a. Anthracnose of stem b. Rhizome wilt c. None

309. Banana fruit bunch is called:

- a. Hand
- b. Heart
- c. Finger
- d. All of above

310. Banana plant bears in it's life time:

- e. Once in life
- a. Twice in life
- b. Multiple times
- c. All of above

311. Banana propagation is carried out through:

- f. Sword sucker
- a. Water suckers
- b. Aerial suckers
- c. All of above

312. Banana is a fruit type of:

- a. Non climacteric
- g. Climacteric
- a. Recurrent climacteric
- b. All of above

313. Apple and pear belongs to:

- a. Same genus
- h. Different sub genus
- a. Different genera
- b. All of above

314. Apple is a rich source of mineral:

- a. Carbohydrates
- b. Proteins
- c. Vita-A
- i. Iron

315. Apple bears on spurs in cluster of:

- a. 3 Flowers
- b. 4 Flowers
- j. 5 Flowers
- c. More than all above

316. Apple flower is distinguished from pear flower:

- a. Due to its colour
- b. Due to its size
- c. a & b
- d. None

317. Honey extracted from almond flower is inedible due to:

- k. Amygdalus factor
- a. Oxalic acid
- b. a & b
- c. None

318. Almond and peach belongs to:

- a. Same genus and spp.
- 1. Some germs & different spp.
- b. Different genus & different spp.
- c. All of above

319. Different mango varieties can be distinguished on the basis of:

- m. New leaf colour
- a. Panicle length
- b. Number of male flowers
- c. All of above

320. Salt tolerant fruit plants are:

- a. Date and Ber
- b. Ber and Guava
- n. a & b
- c. None

321. Adopted planting system of orchard in Pakistan is:

- o. Square system
- a. Rectangular system
- b. Hexagonal system
- c. All of above

322. RCBD stands for:

- a. Repeated control block design
- b. Reported complete block design
- p. Randomized complete block design
- c. All of above

323. Nitrogen in plant sample is estimated by:

- a. Refreshrometer
- q. Kjeldhal's apparatus
- b. Spectrophotometer
- c. All of above

324. Jaman has a medicinal value against:

- r. Diabetes
- a. Cancer
- b. Blindness
- c. All of above

325. Chinese layering is practiced in:

- a. Mulberry
- b. Strawberry
- s. Litchi
- c. All of above

326. Abscission in fruit occur due to:

- t. Excessive abscissic acid
- a. Excessive Ghrtamic acid
- b. Excessive Lactic acid
- c. Excessive Citric acid

327. Button in citrus fruit is:

- a. Calyx at base
- b. Calyx at apex
- c. a & b
- d. All of above

328. Pomology is a study of

- u. Fruit plants
- a. Pome fruit
- b. Medicinal plants
- c. Deciduous plants

329. The microsporogenesis is the formation of

- v. Male gamete
- a. Female gamtete
- b. Female and male gamete
- c. Non of these

330	Physiological aging activity in which plant tissues degenerate and ultimately die is called a. Senescence
	b. Ripening
	c. Climactericd. Degeneration
331.	Plants response to the relative length of daylight or darkness is known as:
	a. long day
	b. Short day
	c. Neutral
	e. Photoperiodism
332.	Abscisic acid (ABA) is natural plant hormone, which:
	a. Promote the growth
	b. Initiate the ripening
	c. Induce the fruit maturity
	f. retards the growth
333.	The development of fruit without fertilization or seed is called as: a. Pollination
	b. polyembryony
	c. pseudogamy
	g. Parthenocarpy
334.	The commercial yield of citrus orchards in tropical and subtropical are commonly:
	a. Equal
	h. 50% less in tropical than subtropical regions
	a. 50% more in tropical than subtropical regions
	b. All wrong
335	High nitrate supply helps to maximum carbohydrates:
	i. Utilize
	a. Store
	b. Synthesize
	c. Increase
336.	Nuceller seedlings are also called as:
	a. Monoembryony
	b. Zygotic seedling
	j. Polyembryonyc. None of them
	c. None of them
337. recom	A change in genetic constitution, which arises suddenly and not to segregation and abination of genes in sexual reproduction is called as:
	a. Hybridization
	b. Bud variation
	k. Mutation
	c. Non of them
338.	Spongy tissue in mango is due to
	a. Fungul disease
	b. Viral disease
	c. Bacterial disease
	1. Physiological disorder
339.	The soil moisture conservation technique under covered ground area is called:
	a. Fertigation
	m. Mulching
	b. Microjet irrigation
	c. Hydraulic
340.	Bananas main portion which remains above the ground is called as:
	a. Stem
	b. Rhizome
	n. Pseudostem

c. Crown

341.	Low temperature helps to growth inhibitors: a. Increase
	b. Storec. Produce
342.	Gross Michel is high yielding variety of: a. Papaya
	b. Grapesp. Bananac. Litchi
343.	Shamber is variety of Grape fruit in which pulp is;
	q. Pigmented and seedlessa. White and seedlessb. Pigmented but seeded
244	c. White and seeded
344.	The foster is variety of: a. Mandarin b. Sweet orange
	c. Pummelosr. Grape fruit
345.	The non-climacteric fruit is a. Banana
	b. Mangoc. Apples. Citrus
346.	Bunchy top disease in banana is said to be due to:
	a. Insects
	b. improper storagec. fungus
347	Severe pruning in grapes is recommended: u. Every year
	a. After two yearb. After three year
	c. None of them
348.	King of temperate fruit is: a. Mango
	b. Citrus
	c. Banana
	v. Apple
349.	Reproduction of plants through seeds are also called:
	a. Asexual propagationb. Vegetative propagation
	w. Sexual propagation
	c. Tissue culture
350.	The plants shed their leaves during autumn are called; a. Evergreen
	x. Deciduousb. Hardy plants
	c. Non of them
351.	Ripened ovary is called as:
	a. Flower
	b. Seed y. Fruit
	c. Embryo

352.	Pollination between two such flowers situated on the same plant is known
	a. Autogamy
	z. Allogamy
	b. Cross pollinated
	c. None of these
	c. None of these
353.	A good example of disseions plant is
333.	A good example of dioecious plant is
	a. Apricot
	b. Pear
	c. Plum
	d. Papaya
. . .	
354.	Sensation is the variety of:
	a. Sweet orange
	b. Grape fruit
	c. Mandarin
	e. Mango
355.	Tomato nursery established during September could be transplanted in the field during
	f October
	f. October
	a. November
	b. November/December
	c. January/February
356.	The variety originated from a cross of King X Willow leaf is:
	a. Clementine
	b. Fair child
	c. Feutrell's early
	g. Kinnow
357.	Causes of misshapen and angularity in cucumber fruit under tunnel is due to
	h. Poor pollination
	a. Poor fertilization
	b. Proper pollination
	c. None
	e. Trone
358.	In citrus 80-90% of the active roots are present in the soil to a depth of:
	a. 25 cm
	b. 50 cm
	c. 75 cm
	d. 100 cm
	u. 100 cm
359.	Fleshy fruit with thin skin, not formed from the ovary but from another part of the
	s known as:
piulit i	a. Berry
	b. Drupe
	c. Stone fruit
	d. Pome
	u. Tome
360.	The fruits which do not naturally open to shed seed are known as:
	a. Dehiscent fruit
	b. Fleshy fruit
	· · · · · · · · · · · · · · · · · · ·
	c. Dry fruit
	e. Indehiscent fruit
361.	The example of above ground modified stem is
301.	f. stolons
	a. Corms
	b. Tuber
	c. Rhizome
	c. Rinzonie
262	
362.	Edges of the leaf are called
362.	Edges of the leaf are called g. Margin
362.	Edges of the leaf are called g. Margin a. Midrib
362.	Edges of the leaf are called g. Margin

363. In citrus, 2n chromosome number is 22 b. c. 33 d. 20 **364.** Botanical name of sweet orange is a. C. citrii b. C. chinensis h. C. sinensis c. Non of them 365. **Sweet orange requires** a. Dry and semi arid conditions **Dry and sub humid conditions** Wet and sub humid conditions b. Non of these 366. Zinc deficiency is sweet orange causes a. Chlorosis in fruit **Chlorosis** in leaves b. Streaks on leaves c. sweetness of fruit. 367. Antagonistic effect of Fe on Zn availability in sweet orange causes: a. Leaf drop b. Fruit drop c. Reduce fruit weigh k. Zn deficiency 368. Blooming in mango occurs: February to Mid April January to first week of February b. September-October c. May - June 369. The whole inflorescence in mango is called as a. Spike m. Panicle b. Spath c. Non of these **370.** High seed germination in cucumber occurs under temperature range of: n. 20-25°C a. 25-30°C b. 15-25°C c. None of above 371. Maximum number of flowers in mango are borne on August flush b. June flush c. May flush o. April flesh

372. The fruit of mango is

- a. False fruit
- b. Pome fruit
- p. Drupe fruit
- c. Stone fruit

373. Inarching is also called as

- a. cutting
- b. Budding
- q. approach grafting
- c. non of these

374. Anthracnose of mango is: r. Fungal disease a. Viral disease

- b. Physiological disorder
- c. Non of these

375. One year old branch of plant is

- a. sprigs
- b. Mature branch
- s. twigs
- c. Non of these

376. Guava is grown on large scale in

- a. Quatta
- b. Multan area
- t. Sheikhupura area
- c. Bahal pur area

377. All commercial date palm orchards in Pakistan are pollinated by

- a. Insects
- b. Winds
- c. Natural
- u. Manual

378. Umran No. 9 and 13 are the varieties of

- a. Loquat
- b. Grapes
- c. Banana
- d. Ber

379. Flower bearing in ber occurs during

- a. Spring
- b. Winter
- c. Summer
- e. Autumn

380. East Malling is a root stock for

- f. Apple
- g. Loquat
- a. Musambi
- b. Pine apple

381. Low chilling verities of apple

- a. Tropical Beauty
- b. Enna
- c. Non of these
- d. All of these

382. Stooling is also called as

- a. Sexual propagatiobn
- b. Cutting
- c. Gooti layering
- e. Mound layering

383. Good soil management ensures

- a. Good supply of organic matter
- b. Prevent the soil erosion
- c. Preserves moisture
- f. All of the these

384. Apple require relatively

- g. High K and low P
- a. High P and low K
- b. Equal K and P
- c. No K and P

385. Full grown apple tree requires a. No FYM

- b. Very low FYM
- c. 40-50 Kg FYM
- h. **80-100Kg FYM**

386. Irrigation during blooming in apple

- a. Help to increase the fruit set
- Harm full to fruit set i.
- b. Shows no response
- c. Reduce the fruit development

387. Cross pollinated in apple generally produce

- a. Bad results than self pollinated
- Better results than self pollinated
- b. Same results as self pollinated
- c. Non of these

388. In sweet orange pre-harvest fruit drop is

- a. Seldom experienced
- b. Never experienced
- c. common experienced
- k. Problems of the area

389. The sweet orange is a

- Loose skinned
- m. Tight skinned
- a. Both of them
- b. Non of these

390. Sweet orange belongs to the family

- Malvaceae
- b. Rotaceae
- c. Rutaceae
- d. Chenopodiaceae

391. Citrus reticulat Blanco is the botanical name for

- a. Sour lime
- b. Mandarin
- Both of a and b
- d. None of these

392. Tap roots of plants are also called as

- a. Secondary roots
- b. Adventitious roots
- e. Primary roots
- Tertiary roots

393. The parts of stem from which a leaf arises is called

- **Node**
- Internodes a.
- Apex h.
- c. Bud

394. The plants which live for only a single season are called

- a. Herbs
- b. Perennials
- Biennials
- **Annuals** g.

395. Plants, soft and green, and can be easily bent is known

- h. Herbaceous
- a. Woody
- b. Shrubs
- c. Non of these

396. The bud which develop into the axils of a leaf is **Axillary buds** Terminal buds b. Adventitious buds c. Naked buds **397.** In some plants the buds contain both leaves and flowers and known as a. Leaf buds b. Flower buds c. Scaly buds Mixed buds 398. A slender trailing stem taking roots at the node is Runner Rhizome b. Tuber c. Bulbs 399. The stamens are the male organs of flower which are also called a. Pistil b. Gynoecium **Androecium** 1. c. Carpel 400. Special leaf which bears a flower or cluster of flowers in its axils is called m. Bracts a. Compound leaf b. Simple leaf c. Non of these 401. The terminal part of the pedicel bearing the sepals, petals, stamens and carpals is called Pedicel Inflorescence b. **Thalamus** c. Non of these 402. Peduncle is a main axis of the a. leaf b. Flower Inflorescence Bud 403. An inflorescence in which the pedicels of the flowers arises from the same points as called **Umbel** p. Spike a. Catkin b. Uninate 404. A group of flowers on an axis is called q. Solitary axillary flower Solitary terminal flower b. Inflorescence c. Modified flower 405. The nutritive tissue around the embryo in seed is a. Endosmosis b. Endodermis **Endosperm** r. c. Embryo-sac 406. Bracts situated out side the calyx in certain flowers are called **Epicalyx** S. **Epibasal** a.

b. Epicarpc. Epidermis

407. The germination of seed in which cotyledons come above ground is **Epigeal** a. Hypogeal b. Epigynous c. Epipetalous 408. A sexual cell in plants is called u. Gamete a. Gametophyte b. Gamopetalous c. Gamosepalous 409. A flower which has all the usual parts sepals, petals, stamens and carpel is called a. hermaphrodite **Complete** b. Pistilate c. Incomplete 410. The situation in which a plant grows wild is called a. Habitat b. Halophytes c. Helicoids d. Haustorium's 411. Proteins are most complex organic compounds, containing a. Carbon b. Hydrogen c. oxygen and nitrogen e. All of these 412. Pine apple is a source of Vitamin C Vitamin A b. c. Vitamin B f. All of these 413. Papaya is still being commercially propagated from a. Cutting b. Suckers g. Seeds c. Grafting 414. For good pollination in papaya orchard it is necessary that male plants should be h. 5-10% a. 40-45% b. 50-55% c. 70-75% 415: Silver Oak belongs to family: a. Rosaceae b. Palmae c. Oleaceae Proteaceae 416: Pollination in tomatoes under tunnel production is carried out by: a. Honey bees b. Bumble bees c. House flies j. Vibration 417: Dwarfing rootstock for apple in heavy soils is: a. M-7 k. M-9 b. M-11 c. Crab apple

118:	Rate of ethylene production in citrus is comparatively than in mango.
	a. Higher
	1. Lower
	b. Equal
	c. Unknown
110. T	omong one verselly degreesed of
119; 1	Lemons are usually degreened at: a. 6°C
	b. 16°C
	c. 26°C
	d. 30°C
	u. 50 C
120:	Postharvest fungicidal treatment of mango fruit is done with:
	m. Thiobendazole (TBZ)
	a. Ethylene Dibromide (EDB)
	b. Above both
	c. None of above
121:	variety of apple is reported to perform well at lower altitudes.
•	n. Enna
	a. Amri
	b. Diana
	c. Golden Delicious
122:	Dhaki variety of date palm was originated in:
	a. Sindh
	o. NWFP
	b. Balochistan
	c. Punjab
	v. rangue
123:	Which of the following vegetable crop is a relative of cotton:
	a. Onion
	p. Okra
	b. Mustard
	c. Brinjal
124:	In pineapple sweet orange, fruit drop in month of June is upto:
	a. 66%
	b. 76%
	c. 86%
	q. 96%
105	
125:	Hodgson divided genus citrus into:
	a. 16 species
	b. 26 species
	r. 36 species
	c. More than 36 species
126:	In Pakistan, yield of potato range between:
	a. 10-15 ton
	b. 15-20 ton
	s. 20-25 ton
	c. 25-30 ton
127:	Motia (ornamental) belongs to family:
/.	t. Oleacecae
	a. Moraceae
	b. Rosaceae
	c. Nyctaginaceae
128:	Rubber plant (ornamental) belongs to family:
	a. Oleacecae
	u. Moraceae

b. Rosaceaec. Nyctaginaceae

429: Bougainvillea (ornamental) belongs to family: a. Oleacecae b. Moraceae c. Rosaceae v. Nyctaginaceae 430: Germination percentage in sour orange rootstock is: a. 50-60% a. 61-70% b. 71-80% c. 81-90% 431: In Kinnow mandarin, fruit drop in month of June is upto: a. 70% w. **75**% b. 80% c. 85% 432: Following species of citrus can be propagated through cutting. b. Sweet orange x. Sweet lime c. Kaghzi lime d. Non of above 433: Following species of citrus can be propagated through layering. a. Sweet orange b. Sweet lime y. Kaghzi lime c. None of above 434: In Punjab, most of the fresh vegetable production is carried out: a. Near cities b. Near rivers c. Near canals d. All of above 435: Which of the following crop has high sulphur contents: a. Garlic Onion a. Radish b. None 436: During propagation through cuttings, which hormone(s) is/are used for root promotion? a. ABA f. Seradix b. NAA c. All above 437: Araucaria was originated from: g. South Pacific a. South Asia b. Far East c. Middle East 438: Rubber plant can be propagated through: a. Aerial layering b. Cutting h. All above c. None of above 439: Silver Oak produces seeds after age of: a. 1 year i. 5 years

j. 10 yearsb. 15 years

140:	Which of the following plants are used for the extraction of scent?
	a. Rose
	b. Murva
	c. Citrus
	d. All of above
141:	The first ever auxin discovered was:
	a. IBA
	b. IPA
	e. IAA
	c. None of above
142:	Mowing of grasses in winter is recommended after:
	a. 20-30 days
	b. 30-40 days
	c. 40-50 days
	f. Both 'b' and 'c'
143:	Major types of greenhouse are
173.	a. Even span
	b. Lean to
	g. Odd span
	c. a & b
144.	A44b. 45 64 11
144:	At the time of transplanting, weight of date palm sucker should be: a. 5-10 kg
	h. 10-20 kg
	b. 20-30 kg
	c. Less than 5 kg
145:	Following plant(s) is/are propagated through seed.
	a. Murva
	b. Bottle palm
	c. None of above
	i. All above
146:	Citrus seeds can be stored with Charcoal at following temperature in dry
	tions.
	a. 0-3°C
	j. 3-10°C
	b. 10-15°C
	c. Above 15°C
147:	Seed germination percentage of rough lemon is:
	a. 50-60%
	k. 60-70 %
	b. 70-80%
	c. 80-90%
148:	Most serious insect/pest(s) of apple is/are:
	1. Codling moth
	a. Fruit fly
	b. All above
	c. None of above
149:	Postharvest fumigation of citrus used to be done with:
/ •	a. Thiobendazole (TBZ)
	m. Ethylene Dibromide (EDB)
	b. Above both
	c. None of above
150:	Soil compaction yield of potato.
	a. Increases
	n. Decreases
	b. Does not effect

Unknown

151 :	Cost benefit ratio in potato production should range:
	a. 1:5
	b. 1:10
	c. 10:1 o. Both 'a' and 'b'
152:	"Thalsa" is a variety of potato very suitable for the region of:
132.	p. Peshawar
	a. Tandojam
	b. Mir Pur Khas
	c. Sahiwal
153:	Yield of carrot is maximum at pH:
	q. 6.5
	a. 7.5
	b. 8.5
	c. Below 6.5
154:	Temperate varieties of carrot have life cycle.
	a. Annual
	r. Biennial
	b. Perennial
	c. Unknown
155:	Which of the following vegetable is also called as 'poor man's food'? a. Carrot
	s. Onion b. Redish
	c. Potato
	c. Totalo
156 :	Which of the following factor(s) is/are more suitable for good onion production?
	a. High temperature
	b. Long photoperiod
	c. None of above
	t. All above
157 :	Green potato tuber is inedible due to:
	u. Carcinogenic
	a. Hardness
	b. Hollowness
	c. None of above
158:	CRD is a statistical approach for:
	a. Field experiment
	v. Laboratory experiment
	b. a & b
	c. None
159:	Soft nose is a disorder of:
	a. Date fruit
	b. Citrus fruit
	w. Mango fruit
	c. Apple fruit
160:	Guava seed before germination requires:
	a. Fungicide treatment
	b. Chemical treatment
	x. Commercial grade H ₂ SO ₄ treatment c. All of above
	c. All of above
161:	Fruit splitting in pomegranate and litchi is due mainly to:
	a. Water pressure
	b. Dry ness of airc. Nutritional defects
	y. All of above
	y. An oi above

462:	Production of vegetable out of their normal season of outdoor production is known as: z. Vegetable forcing
	a. Out of season
	b. Crop production
	c. Tissue culture
463:	Yellow wasp is a major pest of:
	aa. Grape fruit
	a. Peach fruit
	b. Citrus fruit
	c. Mango fruit
464:	The only pest of date fruit at green hard stage is:
	a. Nightangale
	bb. Parrot
	b. Sparrowc. All of above
	c. All of above
465:	Study which deals with the microscopic structure of tissue is called:
	a. Anatomy
	cc. Histology
	b. Taxonomyc. Ecology
	c. Leology
466:	Study of plant species in relation to its environmental history is called:
	dd. Phylogeny
	a. Histologyb. Ontogeny
	c. None of these
4 < =	
467:	Elevation of temperate region from sea level ranges: a. 1000-2000 m
	b. 2500-3000 m
	c. 3500-4000 m
	d. b & c
468:	Banana belongs to type of fruit, in which the edible portion is:
100.	a. Mesocarp
	b. Syconus
	ee. Berry
	c. Drupe
469:	Almond is a drupe fruit, in which the edible portion is:
	a. Pericarp
	b. Thalmus
	ff. Seed
	c. Mesocarp
470:	Frond length of cultivated date ranges:
	a. 3-5 m
	b. 3-4 m
	c. 2-3 m
	d. 1-2 m
471:	The most important characteristics of tropical region are:
	a. Snowfall
	b. Frost
	c. Winds
	d. High temperature
472	Addition of hastens the time of fruit bud differentiation in fruit plants:
	a. Nitrites
	b. Nitrides
	e. Nitrates
	c. All of these

473	More harmones are accumulated in plants due to accumulation of:
	a. Nitrate
	b. Starchc. Protein
	d. Vitamins
474	Reproductive phase of fruit plants is improved by the accumulation of:
	a. Nitrogene. Starch
	a. Proteins
	b. Cellulose
475	Pruning in old fruit trees increases fruit bud formation by increasing:
	a. Carbohydrates
	f. New vegetative growth a. Hormonal contents
	b. Cell sap
4= <	•
476	At a temperature slightly above optimum, carbohydrates are: a. Produced
	b. Stored
	g. Utilized
	a. Increased
477	Apical bud becomes in mango at fruit bud differentiation :
4//	a. Flattened
	b. Rounded
	h. Dome shaped
	a. Elongated
470	
478	The phase of fruit bud formation continues until: i. Anthesis
	a. Petal formation
	b. Pollination
	c. Differentiation
479	The development of flower bud in tuberose is:
4/9	a. Basipetal
	b. Exipetal
	c. Endopetal
	j. Acropetal
480	Rate of bud development is upto winter season:
400	a. Slow
	k. Rapid
	b. Medium
	c. Constant
481	Dormancy is a function of interaction of growth promoter like GA and growth inhibitor
	:
	l. ABA
	a. Cycocellb. Alar
	b. Alar c. Paclobutrazole
	C. Faciobulazoie
482	Dormancy of seed is a biological mechanisms that provides protection against:
	a. Seed spoilage
	b. Embryo abortionm. Pre mature germination
	m. Pre mature germination c. Dehydration
405	
483	The major metabolic process which takes place in the harvested produce is:
	a. Ripeningn. Respiration
	b. Softening
	c. Senescence

484	At fruit bud differentiation in mango, C/N ratio is:
	a. Low
	b. Medium
	o. High
	c. Very High
485	Annual bearing apples differentiate much greater proportion of their flowers on
	_: _
	a. Spurs
	p. Shoots
	b. Leaf axils
	c. Main stem
486	Self fertility refers to the ability of a variety to produce fruits with viable:
	a. Pollens
	q. Seeds
	b. Ovules
	c. Ovaries
107	Elevens having stigms below the highest outland and solled
487	Flowers having stigma below the highest anthers are called: r. Apistigmatic
	a. Hypostigmatic
	b. Peristigmatic
	c. Exostingatic
488	Failure of a viable pollen to grow down the style of the flower of the same variety is:
caneu	a. Self sterility
	s. Self incompatibility
	b. Self unfruitfulness
	c. Sterility
489	Piping is carried out in
	a. Chrysanthemum
	b. Rose
	c. Gladiolus
	t. Carnation
490	Chlorophyll formation takes place within a light wavelength of:
	a. 150-200
	b. 200-300
	u. 300-675
	c. 700-900
491	Root formation is promoted in softwood cuttings under light intensity of
foot ca	· · · · · · · · · · · · · · · · · · ·
	a. 100-150
	v. 150-200
	b. 200-250
	c. 250-350
492	Fruiting body of roses is called:
	a. Button
	w. Hips
	b. Slip
	c. None of above
493	Apple and pear form their flowers buds in:
493	a. May-June
	x. July-August
	b. September-October
	c. November-December
494	Volatile oil are those oil which can evaporate at :
	y. 25° C
	a. 40°C
	b. 50°C
	c. 65°C

495 and its	The renewal of NO ₃ involves release ofrapid nitrification:	_ from organic fraction of the soil
	a. NO ₂	
	z. NH ₄ b. N	
	c. NO	
496 deficie	Most of Nitrogen is used in the decomposition of ncy symptoms :	and thus plant shows
	a. Amino acids	
	b. Cellulose	
	c. Carbon compoundsd. Organic matter	
497	Toxicity of Mg can be modified by adding:	
	a. N	
	b. PO ₄	
	c. Ca d. K ₂ O	
400	-	1 1141 - 6
498	Injurious effects of sulphates can be replaced with the a. Nitrates	e addition of:
	b. Phosphates	
	c. Ammonia	
	d. Ca & Mg	
499	Internal browning in apples takes place due to	_:
	a. Funguse. High temperature	
	b. Hail storm	
	c. Bacteria	
500	Onion seeds can germinate at a temperature of :	
	a. 0-1°C	
	b. 1-5°C	
	c. 5-11°C d. 15-20°C	
5 04		
501.	Dead heading is the removal of a. Dead branches	
	f. Dead roots	
	g. Faded flowers	
	b. Shriveled leaves	
502.	Hygrometer is used to measure	
	a. Pressure	
	h. Humidity	
	b. Wind speedc. Solar radiation	
5 02	Disching out is the new and of	
503.	Pinching out is the removal of a. Growing point of root	
	b. Opening flower buds	
	i. Growing point of buds	
	c. Removal of seeds	
504.	A thread-like stem or leaf which clings to any support	t, is known as
	a. Climber	
	j. Tendril	
	b. Sucker	
	c. Creeper	
505.	A plant which is able to live under very dry condition	s is called
	k. Xerophytea. Hallophyte	
	b. Mesophyte	
	c. None of above	

506. Removal of young flower buds to allow maximum development of the remainder is termed as: a. Die back l. Disbudding b. Dead heading c. None of these 507.

- Small, hair like outgrowth at the base of leaf stalk is termed as:
 - a. Bud
 - b. Bract
 - m. Stipule
 - c. Ligule
- **508.** Pruning in narrow leave evergreens should be done during:
 - Early fall
 - b. Winter
 - c. Summer
 - n. Early spring
- 509. Which of the following plants require severe pruning?
 - o. Lagerstromea purporea
 - Nerium odorum
 - b. Jasminum sambac
 - Thuja orientalis
- **510.** Which of the following climbers is important for its hardiness and flowers throughout year?
 - Vitis vinifera
 - Bongainvillea glabra p.
 - Tecoma grandiflora b.
 - Quisqalis indica
- 511. Which of the following shrubs bears yellow flowers?
 - Jasminum sambac
 - Tabernamontana divertica
 - q. Thevetia nerifolia
 - c. Hibiscus Rosa sinensis
- 512. Which of the following grounds cover is highly salt tolerant?
 - a. Vinca rosea
 - Bermuda grass
 - b. Musembreanthemum
 - c. Alternanthra
- 513. Which of the following shrubs is used as fruit beauty?
 - a. Cassia glauca
 - b. Nerium odorum
 - Citrus mitis
 - c. Hibiscus rosa sinensis
- 514. Which of following trees has stem beauty?
 - a. Eucalyptus
 - b. Sterculia
 - c. Royal palm
 - All of above
- 515. English Ivy (Hedera helix) is
 - u. Evergreen ground cover
 - a. Evergreen shrub
 - b. Diciduous shrub
 - deciduous ground cover
- 516. Jaccaranda mimosifolia has
 - a. Red flowers
 - b. Yellow flowers
 - White flowers
 - v. Purple flowers

517. Which of the following is an evergreen shrub?

- a. Lagerstromia indica
- w. Pittosporum tobira
- b. Caesalpenia pulchrema
- c. None of the above

Lawn grasses can be established by:

- a. Seeding
- b. Sodding
- c. Plugging
- x. All of the above

519. Tifdwarf is a:

518.

- a. Weed
- b. Shrub
- y. Turfgrass
- c. None of these

520. Gladiolus is propagated through:

- a. Bulbs
- z. Corms
- b. Tubers
- c. Rhizomes

521. Rose budded at 3 ½ feet height is called

- a. Miniature rose
- b. Standard rose
- c. Half standard rose
- d. Climbing rose

522. Most house plants, except cacti, prefer a highly organic and

- a. Neutral growing medium
- b. Alkaline growing medium
- e. Acidic growing medium
- a. None of above

523. Ficus pimula is a

- a. Shrub
- b. Tree
- f. Creeper
- a. Annual

524. Which of the following tree is commonly used in the landscape of arid zone?

- a. Ficus benjamina
- b. Pethocelobium dulce
- c. Pinus longifolia
- g. Prosopis juliflora

525. Which of the following shrubs has white fragrant flowers?

- a. Tabernaemontana divertica
- h. Gardenia florida
- a. Thevitia nerifolia
- b. Lantana comara

526. Commercial flower crops are sometimes watered to cause leaching. This means:

- a. Watering to spread fertilizer nutrients more evenly throughout the plant root system
- i. Watering to remove excess soluble salts from the growing medium
- a. Watering only to wet the top 1/3 of the growing medium
- b. Watering by subsurface methods

527. Most grass species utilized for turf are characterized by:

- a. Prostrate creeping
- b. Fine to medium texture
- c. Short basal nodes
- j. All of above

528. Which of the following trees change foliage colour during winter? a. Albizzia lebbek b. Delonix regia k. Sapium sebeferum c. Thuja orientalis 529. Which of the following plants is known as dessert saroo? a. Populus nigra b. Bahinia varigata c. Sapium seveferum Casuarina equistifolia **530.** Which of the following climber belongs to family oleaceae? a. Tecoma grandiflora b. Lonicera japonica c. Bougainvillea glabra m. Jasminum grandiflora 531. Tecoma stans is a n. Shrub a. Tree b. Creeper c. None of above 532. Light intensity is expressed as: o. Foot-candles a. Micrometers b. Candlelights c. All of the above 533. The purpose of staking is to a. Protect the trunk b. Prevent root damage due to wind action p. Prevent wind injury to branches c. Prevent damage due to frost. 534. Japanese style of floral arrangement is known as: a. Ikenobo b. Yen q. **Ikebana** c. Ying 535. Dacca is a selected variety of: a. Herb b. Shrub **Turfgrass** r. c. None of these 536. Growing medium kept too wet will deprive the plant: Soluble salts b. Water s. Oxygen c. Fertilizer 537. The interrelationship of size with floral arrangement to its surroundings is: a. Harmony b. Rhythm Scale c. Balance **538.** A climbing plant with woody stem is called u. Vine a. Liana b. Hedge c. All of the above

539. Hard, thorny structures which protect the buds of woody plants during winter, are termed as: a. Nodes v. Scales b. Bracts c. None of all **540.** A common example of incomplete flower is: a. Apetalous flower b. Staminate flower c. Pistillate flower w. All of the above 541. To preserve the germination ability of most seeds, store them in a: Warm, dry environment x. Cool, dry environment b. Cool environment after scarification c. Warm, moist environment after stratification 542. The soil pH level primarily controls: a. Soil temperature b. Activity of soil-borne diseases c. Moisture absorption by roots y. Availability of essential plant nutrients Which of the following is a shade-loving flower? 543. a. Marigold b. Snapdragon c. Chrysanthemum **Impatiens** 544. Plants which flower on the previous season growth: Should be pruned after flowering. b. Does not need to be pruned Should be pruned in the dormant stage. **d.** Should be cut back heavily in late summer. 545. The most common summer cooling system in greenhouses is: a. Package evaporative coolers b. Fan-tube cooling system c. Fog evaporative cooling d. Fan-and-pad evaporative cooling 546. All of the following are bulbous and tuberous-rooted plants except: a. Dahlias b. Dutch iris c. Caladiums d. Snapdragons 547. involves incorporating water soluble fertilizer into the irrigation systems of greenhouse and nursery crops. a. Broadcasting b. Fertilization e. Fertigation c. Perforation 548. Which of the tree bears red colour flowers? Ervthrena subrosa f. Albizia lebbek a. h Sapium sebiferum Thuja orientalus 549. Which of the plant is evergreen? Papulus nigra ab-Bohinia verigata c-Euclyptus rostrata

None of the above

g.

550. Lack of early spring flowering from tulip bulbs planted outdoors is due to: Bright sunlight Lack of winter cooling h. b. Excessive moisture Magnesium and calcium deficiencies c. 551. A leaf with parallel venation: Has leaflets Is a monocot a. b. Has crossing veins Is a compound leaf 552-When making hand-tied bouquets, the stems should be positioned: Parallel to each other Perpendicular to each other b. Any way that looks nice and holds together c. In a **spiraling** manner i. 553-Which of the following is not a method for sterilizing plant growing medium? a. Steaming b. Baking c. Using chemical fumigants Keeping the growing medium moist for 6 to 7 days 554-Which of the following is not among the major principles of design? a. Balance b. Scale c. Emphasis k. Price 555-The showy red, pink, or white portion of the poinsettia are: Flowers **Bracts** 1. b. Petals c. Sepals 556-A technique to produce well branched, compact plants with many flowers is: a. Stunting b. Compacting m. Pinching c. Potting 557-Which of the following is a member of the Dianthus family? Chrysanthemum a. b. Phlox c. Sedum n. Carnation 558-Which of the shrub bears red colour flowers a. Atriplex halimus b. Tecoma stans o. Jatropha metrifeda c. Jasminum sambac 559-The acceleration of flowering by manipulating environmental conditions is known as: a. Pulsing p. Forcing b. Leaching After-ripening **560-**Which shrub has white colour flowers with fragrance a. Tabernaemontana divertice b. Hibiscus rosa chinensis c. Thevetia merifolia q. Jasminum sambac

561. Peat is often mixed into the growing medium of container plants because it:

- a. Is inexpensive
- Has good air and water holding capacities
- b. Has a high pH
- c. Absorbs excessive soluble salts

562 The two most practical means of the home owner to control insects and diseases are:

- a. Mechanical and chemical
- s. Mechanical and biological
- b. Chemical and biological
- c. Biological and natural

In temperate climates, pruning should not be done near the end of the summer because:

- . New growth will not harden before winter
- a. It may increase foliage disease
- b. Plants will not recover in time to produce new growth before winter
- c. Sever "bleeding" from the cuts will kill the plant

A plant hardy in tropical zone will also be hardy in zone:

- a. Temperate
- u. Subtropical
- b. Arid
- c. Semi-arid

A person who designs, establishes, and maintains small scale landscape project, is:

- a. The garden superintendent
- b. The landscape nurseryman
- v. The garden center manager
- c. The landscape architect

During dry periods, landscape plants should be:

- w. Watered lightly every day
- a. Watered heavily once each 7-10 days
- b. Watered and fertilized heavily each week
- c. Watered only after darkness

567 Both asphalt and concrete are used for hard surfacing driveways. Which of the following is true for asphalt?

- a. The thickness of an asphalt needed for a driveway is less than the thickness of concrete needed for a driveway.
- b. Asphalt should be pitched to promote drainage
- x. Asphalt does not need a porous base material
- c. Asphalt is crowned to promote drainage

568 Pinus halipensis is very healthy growing in:

- a. Tropical zone
- b. Subtropical zone
- y. All of the above zones
- c. None of the above zones

569. The design principle of total compatibility of all parts of an arrangement with each other is:

- a. Transition
- b. Texture
- c. Harmony
- d. Proportion

570. For optimum vase life, most cut flowers should be stored at temperatures close to:

- e. 40 °F
- a. 45 °F
- b. 30 °F
- c. 50 °F

571. Which of the following statements is true.

- a. Perennials are used for one season.
- f. Perennials are good plants for the garden with low maintenance cost.
- b. Perennials are not easy to grow and establish in beds.
- c. Perennials are only for foliage beauty.

572 Which of the following perennials is low and spreading type? Vinca g. Gaillardia a. b. Cimicifuga c. Coreopsis 573 Which of the following perennials has more varieties? h. Geranium a. Helenium Verbena b. Ghazania 574 Which of the following perennials is hardy and having blue and lavender colour flowers? Verbena Dianthus b. Calendula c. Alyssum 5**75.** The major auxin produced in plants is: a. Indole-3-butyric acid (IBA) b. Naphthalene acetic acid (NAA) **Indole-3-acetic acid** (IAA) j. c. Ethylene When cells are turgid, they are: 576. a. Deflated b. Ruptured c. Inflated k. Joined with other cells 577 Which of the following statements is true? Annual can survive in the sever winter without protection. Annuals usually bloom only once each season. b. Annuals are only planted in spring. Annuals are only used for foliage beauty. **578.** Which of the following statements is true? a. Annuals are used as surface material. Annuals are used as ground covers. c. Annuals are used as border plants. m. Annuals are used all of above purposes. 579. Which of the following statements is true? Verbena is used for climbing purpose. b. Verbena is used for border purpose. Verbena is used for hedge purpose. Verbena is used for bedding purpose. Pansy is very popular annual due to its: 580 a. Stem and foliage beauty b. Hardiness toward ground cover c. Planting under shad. o. Mix colour flowers bedding plant.

Which of the following annuals is planted as vine?

- a. Salvia
- p. **Ipomea**
- b. Verbena
- c. Marigold

Which of the following annuals is used as ground cover?

- q. Musemberanthemum
- a. Stock
- b. Viola
- c. Calendula

583	Which of the following annuals is used as rock garden? a. Cosmos b. Clarkia
	c. Dianthus r. Morning glory
584	Which of the following annuals is used as foliage beauty? s. Kochia a. Phlox
	b. Partulaca c. Antirrhinum
585.	The average humidity percentage recommended for interior plants is: a. 70 to 100%
	t. 40 to 70% b. 20 to 30% c. 10 to 20%86.
586	The bract that encloses a flower cluster is a a. Quill
	u. Spathe
	b. Spike c. Petal
587. fertiliz	
	v. Early spring a. Late fall
	b. Late summer
	c. Early summer
588. is:	A major problem in standard carnation production resulting in asymmetrical flowers
	a. Improper fertilizationb. High-density spacing
	c. Calyx splitting
	d. Lack of pinching
589.	is generally added to water when processing flowers in a retail floral shop. a. Herbicide
	b. Insecticide
	w. Biocide
	c. Algicide
590.	The genus and species name for the ponytail palm is: x. Beaucarnea recurvata
	a. Moluccella laevis
	b. Brassaia actinophyllac. Cordyline terminalis
591.	
391.	Training plants into three-dimensional ornamental forms, such as animals, is called: y. Topiary
	a. Espalierb. Heading back
	c. Bonsai
592.	Clay soils require:
	z. A longer time for absorption of irrigation water than sandy soilsa. A shorter time for absorption of irrigation water than sandy soils
	b. About the same time for absorption of irrigation water as sandy soils
	c. More or less time for absorption than sandy soils, depending on the pH of the clay
593.	Plants that have been clipped or pruned into two-dimensional forms are: a. Espalier
	b. Topiary
	c. Balanced d. Dynamic

594.	A transplanted tree or shrub should be set into the ground:
	a. 50 percent deeper than it was originally planted
	b. So that the top roots are exposed to the air
	c. With the top of the container slightly covered
	e. At the same depth at which it was originally growing
595.	The main commercial method for propagating African violets is by:
.,	a. Seeds
	b. Crowns
	c. Tubers
	f. Leaf petioles
596.	Damping-off is caused by:
.,0.	g. Fungi
	a. Bacteria
	b. Nematodes
	c. Virus
505	
597.	Which of the following is a group of terms related to landscape design principles?
	a. Stratify, random, curvature
	h. Focalization, proportion, simplicity
	b. Hogarth, symmetrical, curvature
	c. Thresh, rounding, complexity
598.	Plants usually do not grow well in poorly drained soils because:
	i. Oxygen content is low in poorly drained soils
	a. The organic matter content of poorly drained soils is too high
	b. Poorly drained soils warm too quickly in spring
	c. Plant roots become engorged with water in poorly drained soils
599.	To make the living area of a landscape appear larger, a designer should include plants
that fo	eature:
	a. Warm-colored flowers such as reds, oranges, yellows
	j. Cool-colored flowers such as blues, purples, lavenders
	b. A combination of warm- and cool-colored flowers
	c. All white flowers
600.	Which of the following turf areas is mowed to the lowest height?
	a. Commercial lawn
	b. Golf fairway
	c. Home lawn
	k. Golf green
6 01.	In plants, is the process of converting stored energy into energy for plant
growt	
	a. Transpiration
	b. Photosynthesis
	l. Respirationc. Pollination
	c. Folimation
602.	A landscape designer uses many in developing the preliminary design for a
proje	et.
	a. Perfect plans
	m. Bubble diagrams
	b. Site surveys
	c. Problem statements
603.	An avample of an organic material is
uuJ.	An example of an organic material is a. Pea gravel
	b. Perlite
	n. Leaf mold c. Vermiculite
	c. vermeunte
604.	The loss of water in the form of vapor from the surface of plant leaves is referred to as:
	o. Transpiration
	a. Respiration
	b. Oxidation
	c. Condensation

605.	The basic underlying principle of using a mist propagation system is that it:
	a. Keeps the propagation medium uniformly moist and supplies moisture to the base of the cuttings
	b. Keeps the plant material cool
	c. Cools the propagation medium to promote root formation and development
	p. Increases humidity around the cutting and reduces transpiration
606.	Low-growing landscape plants should:
	q. Be placed in front of intermediate growing plants
	a. Be placed behind intermediate growing plants
	b. Not be used in the landscapec. Be planted under large trees
<0 =	
607.	In a landscape design, properly located plants and structures. r. Can reduce heat intensity
	r. Can reduce heat intensitya. Need to be constantly pruned and maintained
	b. Block the view of the front door
	c. Are not essential for a good landscape design
608.	A shade loving border plant is:
	a. Marigold
	s. Impatiens
	b. Zinnia
	c. Chrysanthemum
609.	A plant that dies to the ground at the end of each growing season but comes back from
	me root stubs year after year is most accurately described as:
	a. Perennial
	b. Annual
	c. Biennial
	t. Herbaceous perennial
610.	Two basic types of pruning are heading-back and thinning-out. Which of the following
is true	about these pruning methods?
	a. Thinning cuts leave behind a good portion of the stem and many axillary buds.
	 Thinning cuts are made close to a main branch or ground and few axillary buds are left.
	b. Heading cuts usually remove entire branches and leave no buds.
	c. Heading cuts remove a portion of the stem and only terminal buds are left.
611.	Lowering the soil grade around a tree removes many of the tree's roots.
	a. Tap
	b. Aerial
	v. Feeder
	c. Aquatic
612.	Water availability, temperature extremes, and should be considered when
selecti	ng trees for the landscape.
	a. Slope
	b. Topography
	w. Soil type
	c. Buildings present
613. by:	Lawn sprinkler systems are installed so as to provide even coverage. It is accomplished
	x. Spacing the heads so that each sprinkler sprays to the next sprinkler

- a. Using sprinkler heads with a square pattern throughout the landscape
- b. Spacing sprinklers based on needs specified in the soil test
- c. Using one size pipe throughout the landscape
- 614. Callus is a term usually referring to:
 - a. The tissue on the collar of a limb
 - y. The **first tissue develops** on a **cut surface just before** the **root formation iniates**.
 - b. Deformed growth on plant limbs
 - c. A disease of plant leaves and limbs

615.	A	is a woody perennial that has more than one main trunk.
	a.	Tree
	b.	Flower
	z.	Shrub
	c.	Weed
616.	Mı	rs. Khan loves spring flowering bulbs. Which of the following would you suggest for
Mrs. 1		n to plant?
	a.	Hyacinthus orientalis
		Coleus x hybridus
		Lonicera japonica
	d.	Gardenia jasminoides
617.	In	nursery production, a "liner" refers to
	a.	A plastic bag
		A rooted cutting or small seedling
	a.	A type of garden tool
	b.	A plastic mulch covering
618.		hich of the following is a deciduous vine?
	f.	Tecoma grandiflora Rosa marshenelle
		English ivy
		Rosemary
619.	Fo	ilure of a bulb to produce a marketable flower following floral initiation is:
017.	a.	Disbudding
		Flower blasting
	_	Damping off
		Dieback
620.	W	hich of the following is the proper recommendation for pruning trees at planting.
		Pruning should be limited to shaping the plant by removing dead or damaged limbs
	a.	Trees should be cut back to at least one-half their size to prevent stress on root systems
	b.	Trees should not be pruned until the third year after planting
	c.	Trees should not be pruned at all – the latest trend is to let them develop naturally
	age l	the practice of manually watering a container plant until water comes out of the noles of the container is effective for helping to reduce the buildup of in ag medium.
me gi		Pathogens
		Soluble salts
		Pesticides
		Herbicides
622.	Or	ne of the best ways to speed up the rooting process of cuttings is to:
··	į.	Provide bottom heat
	•	Keep the soil cool and the foliage warm
		Harden them off by laying them out to dry a few days before sticking
		Always take cuttings after mid-day
623.	An	area of the landscape that includes space for such items as a clothes line and garbage
cans i	s the	area.
	k.	Service
	a.	Public
		Private
	c.	Recreational
624.		e landscape design principle of interconnection:
	a.	Is a visual break in sequence
		Is the human perception of space and form related to human dimension
	c. 1.	Is the overall organization and structure of a design Occurs when visual components are physically linked together
()F		
625.	A a.	Mass flower is a type of flower often used as a focal point.
		Line
		Form

c. Spike-type

626. Growing medium for greenhouse plant production is:

- n. A nutritive substance in which seeds germinate and plants grow
- a. Unsterilized soil
- b. Soil which hasn't been graded for size
- c. The cellular structures that make up wood

627. The phenomenon of terminal plant growth suppressing lateral growth is termed as:

- a. The apex auxin complex
- o. Apical dominance
- b. Lateral dominance
- c. Terminal bud inhibition

628. Some seeds are produced in the fall and remain on or in the ground until they germinate in the spring. Exposing seeds to the winter cold and moist soil is nature's method of

- a. Scarifying
- p. Stratifying
- b. Acidifying
- c. Sporulating

629. The use of plant materials and landscaping techniques to conserve soil moisture and to reduce water usage is:

- q. Xeriscaping
- a. Waterscaping
- b. Natural landscaping
- c. Bogscaping

630. Which of the following describes plants that lose their leaves during the winter?

- a. Evergreen
- r. Deciduous
- b. Coniferous
- c. Herbaceous

631. Hardiness refers to:

- a. The strength of the wood of a tree
- s. The *quality* of being *strong* and *being* able to *survive* in a certain region
- b. The hardness of the soil in which a plant is being planted
- c. The ability of a plant to grow indoors

632. Hardening-off is a term used in the nursery/landscape industry to mean:

- a. Allowing herbaceous plants to become woody
- b. Acclimatizing landscape plants to coldframe conditions
- c. Coating plants with a protective plastic-type spray prior to transplanting
- t. Acclimatizing tender plants to harsher, outdoor conditions

633. The removal of lateral flower buds from stems, such as carnations and chrysanthemums, is called:

- a. Soft pinch
- b. Deadheading
- c. Hard pinch
- u. Disbudding

634. A lawn mower with blades parallel to the surface of the ground is called as:

- a. Reel mower
- v. Rotary mower
- b. De-thathing mower
- c. Electric mower

635. The turfgrass least tolerant of shade is:

- a. Zoysia grass
- b. Fescue grass
- c. St. Augustine grass
- w. Bermudagrass

536. to occ	Which of the following is not an important environmental requirement for germination ur?
	a. Proper temperature
	b. Oxygen
	x. Carbon dioxide
	c. Moisture
537. throug	Light energy, carbon dioxide, and water enter into the process of photosynthesis, gh which:
	a. Respiration results
	y. Carbohydrates are formed
	b. Chlorophyll is formed
	c. Amino acids are formed
538.	The most common synthetic root-promoting chemicals are:
	b. IBA and AAN
	c. CCA and ACD
	d. ISO and OSB
	z. IBA and NAA
539.	What information is not mentioned in the legend on a final landscape plan? a. Plant names
	b. Specific notes concerning installation
	c. Plant quantities
	d. Designer's name
540.	When planting a bare-rooted tree, the tree should be planted:
	a. At 6 inches above the original soil level
	b. At 2 inches above the original soil level
	c. At 6 inches below the original soil level
	e. Directly even with the original soil level
641.	A major advantage for producing nursery stock in containers is that it:
	a. Is less expensive than growing in nursery fields
	f. Allows for transplanting any time during the growing season
	g. Requires less water and fertilization than field-grown crops
	b. Requires less labor than field-grown crops
542.	A method of fertilizer application is
	a. Sterilization
	b. Pasteurizing
	h. Side dressingc. Leaching
(42	
543.	Brown patch, dollar spot, and gray snow mold are all diseases of: a. Azaleas
	i. Turfgrasses
	b. Trees
	c. Evergreens
644.	Which plant is a vine?
	a. Ficus benjamina
	b. Pinus thunbergiana
	c. Ilex cornuta j. Lonicera japonica
	
645.	Site features to consider when conducting a site survey include:
	a. Topography, client analysis, natural features, and climate
	k. Topography, soil conditions, natural features and existing vegetation
	b. Natural features, existing vegetation, soil conditions, and client analysisc. Natural features, climate, existing vegetation, and client analysis
646.	Food produced in the leaves moves to other parts of a plant through: 1. Phloem tissues
	a. Xylem tissues
	b. Vein system

636.

c. Arteries

647. When installing a landscape, which step (from the following list) should be completed last?

- m. Plant the trees and shrubs
- a. Add amendments to the soil
- b. Install the drainage system
- c. Build retaining walls and garden walkways

648. Examples of cool season grasses include perennial ryegrass, bentgrass, and:

- a. Bermudagrass
- n. Fescue
- b. St. Augustine
- c. Zoysia

649. Magnesium, calcium, and sulfur:

- o. Are essential elements needed for plant processes
- a. Are micro-elements
- b. Can be found in incomplete fertilizers
- c. Are only needed by some plants

650. Functional roles of plants in the landscape do not include:

- a. Screening
- b. Developing the structural framework of the design
- c. Enclosing
- d. Greening up

651. Which of the following is a major reason for mulching landscape plants?

- a. Increases anti-aerobic activity in the soil
- b. Supplies nutrients
- p. Moderates soil temperature and conserves soil moisture
- c. Attracts earthworms

652. A plant that remains vegetative during its first season of growth and flowers in the second season is a (n):

- q. Biennial
- a. Annual
- b. Propagule
- c. Perennial

653. Most landscape plants like the soil pH:

- r. Slightly acidic
- a. Strongly acidic
- b. Slightly alkaline
- c. Strongly alkaline

654. When installing a landscape, which step (from the following list) should be completed first:

- a. Plant the trees and shrubs
- b. Add amendments to the soil
- s. Install the drainage system
- c. Build retaining walls and garden walkways

655. Wisteria, clematis, and Japanese honeysuckle are examples of:

- a. Trees
- t. Vines
- b. Shrubs
- c. Groundcovers

656. A flower container which is elevated on a base that may be short or long stemmed, is known as

- a. Vase
- b. Bowl
- u. Pedestal
- c. Basket

657. Maximum interior plant deaths result from

- a. Incorrect PH
- b. Too much light
- v. Too much fertilizer
- w. Over watering

658.	In a residential landscape, the area between the house and the street is
	a. Family living area
	b. Public area
	c. service area
	d. private living area
659. landso	A tool which is used for moving loose materials such as crushed stone. Peat moss etc, is cape installation is known as:
	a. Ball cart
	b. Hand trowel
	c. Shovel
	e. Scoop
660 wood	Stabilization of large trees or multi stemmed plants using wires and stakes of Hard or metal is known as:
	f. Guying
	a. Staking
	b. All of the above
	c. None of the above
661	The angle at which a branch meets the trunk of the tree or another larger branch, is g. Crotch
	a. Canopy
	b. Lead branch
	c. Water sprout
662	Limbs are pruned from trees with a technique called
002	a. Thinning out
	b. Heading back
	h. Jump cutting
	c. Pinching
663	Claw like appendages occurring in pairs at the base of the leaf blade of turfgrasses is:
	a. Awn
	b. Bract
	c. Stipule i. Auricle
	1. Auricie
664	Combination of two or more cultivars of a single turf grass species is known as: a. Ball role
	j. Blend
	b. Bench setting
	c. Artificial turf
665	Dry, indehiscent, one seeded fruit with a thin pericarp fused to seed coat is known as: a. Achene
	b. Pomes
	c. Caryopsis
	d. None of these
666	Pollination and fertilization within closed florets is:
000	a. Polygamy
	e. Cleistogamy
	a. Allogamy
	b. Autogamy
667	Stem of a grass plant is
007	a. Stalk
	b. Cane
	f. Culm
	a. None of the above
660	In turn areases, a pair of breats reveally areasest at the base of a smilled at in linear
668	In turf grasses, a pair of bracts usually present at the base of a spikelet is known as g. Glumes
	g. Glumes a. Auricles
	b. Awns
	c. None of the above

669	is the axis of a spike or raceme
	a. Panicle
	b. Peduncle
	h. Rachis
	a. Thalamus
670	In turfgrasses, after mowing, a layer of above ground, green, living grass part is:
	a. Wear
	i. Verdure
	b. Clipping
	c. None of the above
57 1	Kentucky blue grass is a
	j. Cool season grass
	a. Warm season grass
	b. A and B both
	c. None of the above
572	Bahia grass is a
	a. Cool season grass
	k. Warm season grass
	b. A and B both
	c. None of the above
573	Best planting time of turf grasses is
	a. May-June
	b. July-Aug
	c. Sep-Oct
	d. Nov-Dec
574	Rose is a
	a. Short day plant
	b. Long day plant
	e. Day-neutral plant
	a. None of the above
575.	When designing an asymmetrical floral arrangement, the floral designer must consider
vhich	of the following design principles:
	a. Proportion
	b. Balance
	c. Focal point
	f. All of the above
676-	Elements of landscape design are:
	a. Balance & Emphasis
	b. Rhythm & Harmony
	c. All of the above
	g. None of The above
577-	Principles of landscape design are:
	a. Colour & Form
	b. Texture & Colour
	c. All of the above
	d. None of these
578 -	Art of shaping plants into geometric shapes is known as:
	a. Ehabana
	b. Bonseia
	c. Topiary
	d. Pot pourri
579 -	First mowing of a newly established lawn is preferably done by:
	a. Sickle
	b. Mower

c. Scissord. None of these

680-	is a common example of monsoon annual grown in Pakistan :
	a. Dallia
	b. Zinnia
	e. Cock's comb
	c. Pansy
681-	Morning glory is:
001	f. Annual
	a. Perenial
	b. Tree
	c. Shrub
682-	Candytuft is botanically called:
002	a. Helipterum roseum
	g. Iberis amara
	b. Bellis perenne
	c. Tropaeolum inajus
683-	Chrysanthemum is a:
000	h. Short day plant
	a. Long day plant
	b. Day-nentral plant
	c. None of these
684	is a best annual flower used for drying:
00.	a. Gaillardia
	b. Nasturtium
	i. Helichryrum
	c. Balsam
685	Iris is a member of family:
	a. Violaceae
	b. Liliaceae
	j. Iridaceae
	c. Compositae
686-	Hybrid tea roses are developed by crossing:
	k. Hybrid perpetual & Tea rose
	a. Floribunda & Tea rose
	b. Tea rose & Polyontha rose
	c. Tea rose & Grandiflora rose
687-	Roses which flower only once during summer are:
	a. Floribunda roses
	b. Climbing roses
	1. Ramblers
	c. Miniature roses
688	Iceberg bears flowers:
	a. Yellow
	b. Red
	c. Pink
	m. White
689-	Kardinal belongs to:
	a. Floribunda
	b. Miniature
	n. Hybrid tea
	c. Grandiflora
690-	The emission of water vapor from the surface of plant leaves is called:
	a. Fixation
	b. Photosynthesis
	c. Nitrification
	o. Transpiration

691	Eranthemum is a:
	a. Tree
	p. Shrub
	b. Creeper
	c. Annual
592	A common example of fragrant shrub is:
	a. Chandni
	b. Jatropha
	c. Kaner
	q. Murva
593-	Nerium odorum bears flowers of:
	a. White colour
	b. Pink colour
	c. Red colour
	r. All of above
594-	Optimum day time temperature range for best growth of house plants is:
	a. 6-12
	b. 12-18
	s. 18-24
	c. 24-30
595-	To properly water indoor plants, consider:
	a. The type of plant
	b. The size of the plant
	c. Where the plant is growing
	t. All of the above
696-	Croton is a:
	a. Tree
	b. Shrub
	u. House plant
	c. Annual
5 97 -	Araucaria is a plant:
	a. Tropical
	b. Sub-tropical
	v. Temperate
	c. All of above
598	A piece of broken pot which is used at the base of pot to help drainage is know as:
	a. Crown
	b. Cristate
	w. Crock
	c. Bulbil
599-	Crocus is propagated through:
	a. Bulbs
	x. Corms
	b. Rhizomes
	c. Seeds
700-	A leaf of fern or palm is
	a. Simple leaf
	b. Pinna
	y. Frond
	c. Compound leaf
701	Smooth and hairless plant surface is known as:
	b. Glaucous
	z. Glabrous
	c. Gloclind
	d. None of these

702- ball, is	Temporary removal of a plant from its pot in order to check the condition of the roots known as:
-	a. Over potting
	b. Repotting
	c. Knocking out
	d. All of above
703-	Milky sap which exudes from cut surfaces of a few house plants is:
	a. Honey dew
	e. Latex
	b. Glochid
	c. Heel
704-	A plant growth in a pot which is too small to allow proper plant growth is known as: f. Pot-bound
	a. Potting on
	b. Over-potting
	c. Knocking out
705-	Small bulb produced on the stem of a bulbous plants, is known as: a. Bulblet
	g. Bulbil
	b. A & B both
	c. None of above
706-	A small offset produced at the base of a corm, is:
	a. Cormel
	b. Cormlet
	h. A & B both
	c. None of above
707	Narcissus has a cup- like centre in its flowers, known as: a. Corolla
	b. Cross
	c. Crock
	i. Corona
708-	A feathered petal which bears a distinct central band is:
	j. Flamed a. Flaked
	a. Flaked b. Floret
	c. Filament
	C. Phanient
709-	a. Node
	a. Node b. Month
	k. Nose
	c. Hirsute
710-	The stalk of an inflorescence is known as:
	a. Pedicel
	1. Peduncle
	b. Perianth
	c. Petiole
711-	A whorl of leaves arising at the base of plants is:
	a. Scales
	b. Reflexed
	m. Rosette
	c. None of these.
712-	A fleshy spike in which small flowers are embedded, is:
	a. Spathe
	n. Spadix
	b. Spikec. Pedunel
	c. i counci

713is a common shrub which is used as hedge in Pakistan: o. Duranta Motia a. b. Chandna All of the above 714-A flower- head or tightly packed inflorescence, is Trumpet a. Tepal b. **Truss** p. Tunic 715-A dry and often papery covering of corms & some bulbs, is known as: Trumpet b. Plunging c. Fall q. Tunic 716. An instrument that measures the electrical conductivity of a soil solution is called a: Manometer Tensiometer c. Photometer **Solubridge** r. 717. Rose is severely pruned during: Spring (Feb-Mar) b. Autumn (Sep-Oct) Winter (Dec- Jan) S. Summer (May-June) 718 Rose hips are rich source of: Vitamin A Vitamin B b. Vitamin C c. All of the above 719 Balled and Bur lapped evergreens may be moved at any time of year except when u. New shoots are growing They are dormant The soil is frozen The soil is too wet 720 Which of the following are not annual plants? v. Asparagus a. Petunia b. Margold c. Geranium 721 Which of the following annuals are best used for edging a. Poppy b. Stock w. Sweet alvssum c. Sun flower 722 Which of the following are good choices as specimen plants in a landscape: a. Magnolia b. Alstonia Gold mohr c. Bougainvillea 723 The most common mistake in moving cool season grasses is to y. Mow them too short a. Mow too often

b. Use a dull mower bladec. d. Mow them too high

The name of the person who developed the binomial system for naming plants is Linneus Socrates b. Plato c. Hortus 725 When used to describe a plant, the word deciduous means that The plant is perennial The plant sheds its leaves each year c. The plant is a shrub d. All of the above 726 Flowers which are grown from bulbs include a. Zinnia b. Tulip c. Marigolds d. All of the above 727 Xeriscaping is a landscaping process which requires: a. No water in the landscape b. Draining water from landscape area Water conserving c. Arid landscaping 728 Mulching can reduce water loss by: 50% f. 90% b. 35% c. 25% 729 can be effectively used as windbreak: **Moulsary** g. Ulta Ashok a. b. Bottle brush c. All of the above 730 **Sprigging is:** a. Cutting grass to kept it short b. Sowing a lawn Chopping up a lawn to provide better drainage h. Planting individual plants, runners, or stolons to establish a lawn 731 Grass seed should be carefully covered with soil to a depth of a. 0.5 cm i. 1 cm b. 1.5 cm c. 2.5 cm 732 The best way to control weeds from lawn is to develop: A good healthy thick turf A combination of pre emergence and post mergence weed killer b. A weed killer/fertilizer c. None of the above 733 Rolling the lawn each year may be necessary to a. Level the lawn b. Push grass roots into close contact with soil

c. Provide a firm surface for mowing

The common name for diffenbachia is

k. All of the above

a. Umbrella tree b. Bougainvillea c. Snake plant

Dumb cane

l.

734

724

735	The genus name for croton a. Sanservieria b. Ficus m. Codiaeium c. Araucaria
736	 When indoor plants are over watered: a. They drop their leaves b. They die n. Their leaves turn yellow c. All of the above
737	The night temperature of indoor plants should beoF cooler than day time
tempe	erature a. 5-10
	b. 3-4
	c. 20-30
	o. 10-15
738	Charcoal is used in a terrarium for its a. Color
	b. Drainage material
	c. Drainage ability p. None of the above
739	The use of high nitrogen fertilizers in terrarium soil results in the release of a. Moisture
	q. Ammonia gas
	b. New plants
	c. None of the above
740	Plants tend to grow towards light sources. It is known as
	a. Photosynthesis
	b. The rain cyclec. Transpiration
	r. Phototropism
741	Moisture is lost through small openings on the underside of the leaves known as: a. Air holes
	b. Stems
	s. Stomatac. None of the above
	c. Trone of the above
742	The larger, center most of the plants used in bonsai is cut off: a. To dwarf the plant
	t. To cause root branching
	b. To make root system shallowc. To simplify root pruning job
	c. To simplify root pruning joo
743.	Site of attraction that holds attention of viewer in a landscape is called;
	a. Balanceb. Proportion
	u. Focal point
	c. Rythum
744.	Most famous fragrant plant in summer is;
	v. Jasminum sambac
	a. Althcea rosea b. Tabernamontana divertica
	c. All of the above
745.	Lilium longiflorum, an important holiday potted plant, is commonly known as:
, 1 3.	a. Kalanchoe
	b. Poinsettia
	w. Easter Lily
	c. Hydrangea

746. Pansy is very popular winter annual for its

- a. Stem and foliage beauty
- b. Planting under shade
- c. Hardiness towards ground cover
- x. Mixed coloured flower bedding plant

Use of a pipe covered by a rope for providing support to some indoor plants like Scindapsus, is termed as:

- a. Terrarium
- y. Totem
- b. Topiary
- c. None of the above

An open frame work, designed to offer shady resting place is called;

- a. Cold frame
- z. Arbor
- b. Pergola
- c. Deck

749 A line of demarcation that creates visual interest in a landscape by separating one segment from another is called

- a. Edging
- b. Border
- c. Fencing
- d. Line

750 In landscape shape of tree is called

- a. Shape
- e. Form
- b. Structure
- c. Texture

751 Water gardening is also called,

- f. Equascape
- a. Hardscape
- b. Nightscape
- c. Alpine gardening

752. Landscape, in which rocks and grasses are used instead of flowers is called

- a. Rock gardening
- g. Japanese gardening
- b. Water gardening
- c. None of the above

753. Which of the statement is true?

- a. Verbena is used as climber
- b. Verbena is used for border
- c. Verbena is used as hedge plant
- d. Verbena is used as bedding plant

754. Which of the plant is used for is foliage beauty?

- h. Kochia
- a. Phlox
- b. Partulaca
- c. Antirrhinum

755. Which annual flower is used ground cover?

- a. Viola
- b. Stock
- c. Calendula
- i. Musemberanthemum

756. Which of the statement is true?

- a. Lawns should always be moved in the same direction
- b. Plants are best wintered without water in them
- c. Cylinder mowers give thorough mowing because of air vacuum system
- d. Warm season grasses usually respond better to close mowing.

757.	An example of a specialty cut flower used in a floral arrangement is a(n):
	a. Rose
	b. Carnationj. Orchid
	c. Pompom Chrysanthemum
	•
758.	Which of the following plant require very light pruning? k. Nerium Odorum
	a. Rhododendron
	b. Lawsonia alba
	c. Punica grantum
7.50	
759.	Which tree bears fragrant flowers? a. Albezia lebbeck
	b. Pinus roxburghii
	c. Papulus elegni
	l. None of the above
760.	Which following creeper bears white flowers?
, 00.	a. Ipomea
	m. Plumbago
	b. Clerodendron
	c. Tecoma
761.	Pinus roxburghii is very healthy growing in;
	a. Tropical zone
	b. Subtropical zone
	c. All of the above zones
	n. None of the above zones
762.	Low-lying plant that covers some area in the landscape is called;
	a. Shrub
	o. Ground cover
	b. Bedding plantc. Perennial
763.	Plants which shed there leaves in autumn are called;
	a. Evergreenb. Annuals
	p. Deciduous
	c. Biennials
764.	is a common disease found on roses grown for cut flowers.
704.	a. Stem rot
	b. Rust
	c. Root rot
	q. Botrytis
765	Plants for the marginal areas of pond are called
	r. Bog plants
	a. Emergent
	b. Aquatic plants
	c. floaters
766	Type of contained water feature is
	a. Fountain
	b. Water fall
	s. Pond c. None of the above
	c. Itolic of the above
767	is used for daily movement in the landscape
	t. Functional path a. Temporary path
	a. Temporary pathb. Occasional path
	c. Decorative path

768 when all the parts of the design suggest a single impression it is called a. Harmony Transition c. Balance u. Unity **769** In Punjab pruning of roses is managed during a. Summer v. Winter b. Spring Year around 770 Which of the following roses bear clustered flowers? a. Hybrid tea b. Floribunda c. Miniature w. All of the above The new growth of a Dieffenbachia is weak and spindly, with large gaps between the 771. leaves. The problem is probably: a. Salt damage b. Nitrogen deficiency c. Botrytis x. Lack of light 772. Cuttings of potted chrysanthemums are planted at an angle to encourage: y. Increased branching a. Larger blooms b. A more rounded plant c. Earlier flowering 773. The common name for Zebrina pendula is: a. African Lily b. Boston ivy Wandering Jew Z. c. Grape ivy 774. Which of the following flower types is not suitable for pressing? a. Daffodil b. Dusty miller c. Pansy d. African violet 775. The most important environmental factor regulating flower initiation in bulbous species is: a. Light e. Temperature Moisture Ventilation 776. Plant propagation is important because of the reason: Selected plants chosen to maintain their traits Usefulness b. For specific traits c. Preserving plant products as a source of food 777. **Successful Plant Propagation involves the:** a. Knowledge of technical skills b. Knowledge of plant biology c. Knowledge of plant g. All of these Any detached plant part which, when placed under favorable conditions will produce a new plant identical to the parent plant is called a:

h. Cutting

Seed b. Plug C

Graft

a.

779. Which type of cutting is taken in the dormant season when tissues are fully matured and lignified.

- a. Softwood
- b. Semi-hardwood
- i. Hardwood
- c. Herbaceous

780. Colchicine is chemically:

- a. Volatile oil
- b. Tannins
- c. Protein
- j. Alkaloid

781. Quinine alkaloids are present in

- a. Nux vomica
- b. Cocoa leaves
- c. Belladona roots
- k. Cinchona bark

782. This mineral is exposed to high heat and expanded. It is often used as a propagation media.

- a. Perlite
- l. Vermiculite
- b. Peat Moss
- c. Sand

783. What are two of the most important qualities for selecting a rooting media?

- a. Hard and free from pests
- b. Well drained and low moisture retentive
- m. Water holding capacity and Air holding capacity
- c. None of these

784. Which of these four plants which are propagated from herbaceous cuttings.

- n. Carnation, Chrysanthemum, Coleus and Geranium.
- a. Azalea, Coleus, Geranium and Rose
- b. Coleus, Ruscus, Gardenia and holly
- c. Tuberose, Syngonium, Hibiscus and Dracenia

785. Why is it important to select cutting free of berries and flowers?

- a. The flowers and berries take up too much space in the propagation bed.
- b. Because berries and flowers weigh down the cuttings and may cause them to tip over.
- c. The flowers and berries would attract harmful insects to the cuttings.
- o. Because they consume much of the food stored and produced by the cutting.

786. Why is it important to transport cutting from the field to the propagation area in a plastic bag?

- a. To keep your hands and clothing clean.
- p. To help maintain the moisture level of the cutting stock.
- b. Because a paper bag would tear too easily
- c. To maintain the integrity of the soil around the roots.

787. What is the optimum length for most of cuttings?

- a. 1 to 3 inches
- b. 3 to 6 inches
- q. 6 to 8 inches
- c. 10 to 12 inches

788. The bottom leaves from the cutting should be removed before "sticking" the cutting for which of the following reasons.

- a. The leaves may rot
- b. The leaves may become diseased
- c. Neither A nor B
- r. Both A and B

789. When taking the cutting from the stock plant, at what angle should the cut be made?

- a. 25-degrees
- s. 45-degrees
- b. 60-degrees
- c. 90-degrees

790. When sticking a hard wood cutting, how many nodes should be under the rooting medium?

- t. At least 1
- a. 1 to 3
- b. 2 to 4
- c. 3 to 5

791. Why are rooting hormones applied to cuttings?

- a. To increase the plant's ability to reproduce.
- u. To promote the production of a new root system.
- b. To help the cutting resist disease.
- c. To promote the production of healthy leaves, flowers and berries.

792. Why must a hole or furrow be made in the growing media before sticking the cutting?

- a. To prevent the rooting hormone from getting knocked off the end of the cutting.
- b. To make the process of sticking the cutting easier.
- c. To establish the depth to which the cutting should be planted.
- d. To maintain good air circulation around the cutting's base.

793. How many seconds should a cutting be held in a liquid IBA rooting hormone?

- a. 2
- v. 5
- b. 10
- c. 12

794. How far should cuttings be inserted into the rooting media?

- a. ½ to 3 inch
- b. 3/4 to 2 inch
- w. 1 to 2 inch
- c. $1\frac{1}{2}$ to 3 inch

795 It is important to firm the soil around the base of the cutting due to following reasons:

- a. To eliminate air pockets.
- b. To make sure the base of the cutting makes good contact with the rooting media.
- c. Neither A nor B
- x. Both A and B

796. Why is it important to evenly space the cuttings in the rooting medium?

- a. To promote good air circulation.
- b. To cut down on the transmission of disease organisms.
- y. To make the best use of the propagation space.
- c. All of the above.

797. What portion of the stem of a cutting should be coated with rooting hormone?

- a. A portion which includes at least two nodes.
- b. The bottom ¼ inch.
- z. The portion of the stem that will be under the media.
- c. The entire cutting should be covered with hormone.

798. What is the final step of preparing cuttings?

- a. Preparing the rooting media.
- b. Selecting quality cutting stock.
- c. The application of rooting hormone.
- d. Watering-in and placing the cuttings on a mist bed.

799. Why must any left over rooting hormone be discarded after use?

- e. To eliminate the possibility of contaminating the entire supply of rooting
- a. hormone
- b. To conserve funds used to purchase rooting hormone.
- c. To deplete the supply of rooting hormone to help keep the supplier in business.
- d. To assist the propagator in keeping the area neat and free of debris.

800. Why a propagator trim the leaves of large-leaved cuttings? To eliminate unsightly insect damage. To conserve propagation space. To shape the leaves into topiaries. To achieve a uniform leaf size and shape. 801. What type of cutting does not become woody? a. Softwood b. Semi-hardwood c. Hardwood g. Herbaceous 802. Sodium hypochlorite is used: To eliminate unsightly insect damage. To conserve moisture. To enhance the rooting. h. To sterilize cutting tools. 803. Secondary dormancy is due to: a. Immature Embryo b. Chemical Inhibitors **Light Requirement** c. Hardseededness 804. Cutting most oftenly used in fruit plants are: Herbaceous Cutting a. Leafy cutting b. Semi hard wood cutting c. None d. 805. Which of the following fertilizer carries 46% nitrogen a. Ammonium sulphate b. Potassium nitrate c. d. Single super phosphate 806. Red top is the variety of a. Tomato b. Potato Apple d. Guava Alternate bearing in mangoes is due to 807. a. Environmental factor b. Physiological factors c. Genetic factors All of these j. Windproof shelterbelts are 808. k. Very dense Medium dense a. b. Porous c. None of these 809. Plants control direct sunlight and intercept glare by means of l. Obstruction a. Absorption b. Reflection c. Radiation Roses can successfully be cultivated at a temperature 810. a. 40°C m. 21°C

b. 30°Cc. 10°C

a. Rhizome n. Bulb b. Tuber c. Corm 812. **Ground cover includes of plants** a. Annuals b. Biennial c. Perennials o. All of these 813. Which of these shrub produce fragrant flowers a. Cestrum nocturnum b. Cestrum diurnum c. Murraya panniculata p. All of these 814. The danger signs of too little water are a. Leaves rapidly become wilted and limp. b. Leaf growth slows. c. Lower leaves become curled or yellow in colour. q. All of these 815. For potting plants the pH should be_____ r. 5-6 a. 6-7 b. 4-5 c. None of these 816. Double delight is a variety of rose which belongs to a group of: **Hybrid Tea** Floribunda a. b. Miniature c. None of these 817. Chrysanthemums are propagated through a. Seeds b. Suckers c. Cutting All of these 818. Which of the following annual is used in rock gardening? u. Cosmos a. Clarkia b. Dianthus c. Morning glory 819. Which of the following annual is used as ground cover? v. Musemberanthemum Stock a. b. Viola c. Calendula 820. Which of these annual is long season bloom w. Statice a. Sweet peas b. Portulaca c. All of these 821. Which of these are temporary visitor in the garden plantation. a. Perennials b. Shrubs x. Annuals c. Succulents

811.

Tulip is an example of

822. During the summer, day time temperature in the forest are commonly cooler than open areas 2°C a. y. 10°C 15°C b. c. None of these 823. Where the physiotherapy in floriculture can be exercised? a. Old houses b. Jails **Hospitals** Z. All of these 824. Lotus is famous for

- a. Home gardening
- b. Rock gardening
- c. Water gardening
- d. None of these

825. For foundation plantings, plants should be

- a. Deciduous
- e. Annual
- b. Evergreen
- c. Ground covers

826. Which of these create overall effect of various features, styles and colour schemes of the total scene.

- f. Harmony
- g. Proportion
- a. Contrast
- b. Accent

827. When regarding chromosome number

- h. chromosome number will vary within a species
- i. the same species will have always the same number of chromosomes
- j. every species has a different number of chromosomes
- k. Chromosome number will vary within cultivars

828. Which of the following are characteristics of prophase?

- 1. crossing over occurs
- m. A well defined nucleus bounded by a nuclear envelope
- n. Nucleoli disappear
- o. Spindle formation

829. Fusion of protoplasts is done by

- p. Polyethylene glycol
- q. Glycerol
- r. Ascorbic acid
- s. Agar

830. A clone is a colony of

- t. Cells having different shapes
- u. Cells having similar shape
- v. Cells having similar genetic constitution
- w. Cells having similar size

831. The longest phase in mitotic division is

- x. Prophase
- y. Interphase
- z. Metaphase
- a. Telophase

832. The seedless watermelon, *Citrullus lanatus*, that is commonly used all over the world, is:

Tetraploid

- a. Triploid
- b. Diploid
- c. Pentaploid

833. Mango trees bear which type of flowers?

Staminate

Hermaphrodite

Pistillate

Both of above

834. The cultivated tomato originated from wild forms in which region

Africa

South America

South Asia

America

835. Polyembryony in citrus is obstacle in cultivar improvement but rootstock propagation

True

False

Both of above

None of above

836. The species which produce seed from vegetative cells and not through sexual means are

called

Hybrid

Apomictic

Zygotic

Inbred

837. Cucurbitaceae family has which type of plants on the basis of sex of flowers

Hermaphrodite

Dioecious

Monoecious

None of above

838. Who is the breeder of famous Kinnow mandarin?

H.B. Frost

J.W. Grosser

R.K. Soost

F.G. Gmitter

839. Mango varieties grown in Pakistan generally produce seed

Monoembryonic

Polyembryonic

Both of above

None of above

840. The Kinnow hybrid, bred in USA, has parents

King and sour orange

Kara and wilking

King and willow leaf

Willow leaf and sour orange

841. Increased genetic diversity following extended time in a tissue culture is a problem called

Gene alteration

Somaclonal variation

culture shock

Epigenetic variation

842. A mass of dividing, undifferentiated cells in a tissue culture is called

a callus

an embryoid

a plasmodium

protoplasm

843. Electroporation is a technique used with

Calluses

Protoplasts

Cell suspensions

Embryoids

844. To produce plants that are homozygous for all traits, the best choice is

callus culture

anther / pollen culture

protoplast culture

Embryo culture

845. Cell suspension cultures require

Organogenesis

Differentiation

Disaggregation

Dedifferentiation

846. If you want to use a plant tissue culture as a chemical factory for vitamins, choose

suspension cultures

anther pollen cultures

protoplast cultures

None of above

847. The fastest way to a ripe tomato using tissue culture is by

anther / pollen culture

plant organ culture

callus culture

None of above

848. For aseptic cultures in tissue culture, which equipment is not necessary?

pH meter

Laminar hood cabinet

Autoclave

All of above

849. Flower opening is termed as

Emasculation

Anthesis

Dehiscence

Fecundation

850. The four main parts of a flower are

Pollen, ovary, pistil and stamen

Sepal, pistil, ovary and stigma

Sepal, petal, stamen and pistil

All of above

851. Pollination is a sexual process in which pollen is deposited on the stigma of the plant. It starts the process of fertilization and ---

growth of pollen tube

seed formation

production of a fruit or seed coat

All of above

852. Watermelon is a crop with floral biology

monoecious & cross-pollinated

dioecious & cross-pollinated

dioecious & self-pollinated

None of above

853. A plant composed of two or more genetically different tissues is called

Sport

Chimera

Mutation

Hybrid

854. Citrange citrus is the intergeneric hybrid, with its parents?

Poncirus and sweet orange

Poncirus and mandarins

Sweet orange and mandarins

Mandarins and sweet orange

855. Megasporogenesis is the formation of which gametes?

Male

Female

Both of above

None of above

856. A thin, delicate, cellulose inner layer in a pollen grain wall is known as

Intine

Exine

Colpi

All of above

857. A plant useful in the study of plant genomes because of its small genome size is

Tulip spp.

Arabidopsis thaliana

Pisum sativum

Tobacco

858. Most plant tissue cultures are initiated from

calluses

explants

embryoids

Cell suspension

859. Pores in protoplasts may be opened to DNA by the application of

Magnetism

Enzymes

Electricity

None of above

860. Which of the following are mismatched?

Protoplast isolation-hybrids

Homozygous plants-anther/pollen culture

Callus culture-differentiated tissues regenerate

All of above

861. Plant transformation is

When a plant grown in culture generates increased genetic variation

When plant cells in suspension cultures form individual embryos that can grow into plants

The incorporation of foreign DNA into the plant genome

Both a and b

862. Unlike the somatic cells of animals, plant cells can be grown in tissue culture and regenerate new plants

Because each cell contains the entire genome

Because plant cells can dedifferentiate and revert back to seeds

Because plant cells are able to express genes that weren't previously expressed

None of above

863. Phenolic compounds, a cause of medium browning, are mostly released by which plants

Succulents

Woody

Herbaceous

All of above

864. What is the structural nature of enzymes?

Fat

Protein

Carbohydrates

Starch

865. The male sterile plants due to cytoplasmic genes are termed as

Cytoplasmic

Genetic

Gametic

None of above

866. Hyperhydric malformation occurring during in vitro propagation is termed

Contamination

Vitrification

Browning

All of above

867. The use of living organism or their by-products to modify human health and environment is

Tissue culture

Biotechnology

Genetic engineering

Recombinant DNA

868. The ability of somatic cells to grow into a complete plant is termed as

Somatic embryogenesis

Totipotency

Regeneration

All of above

869. Somatic variation is occurred in which cells

Germ cells

Somatic cells

Both of above

None of above

870. Incompatibility, a problem in plants hybridization programs, can be over come by

Somatic hybridization

Endosperm culture

Embryo culture

All of above

871. The process of formation of two or more embryos in the seed is known as

Apomixis

Polyploidy

Polvembryony

All of above

872. The 2n number of chromosome in citrus is

15

18 21

24

873. Which is not the method to check pollen viability in the laboratory?

Staining

In vitro culture

Fruit set

None of above

874. The one reason of unfruitfulness in fruits may be

Heterostyly

Compatibility

Monoecy

None of above

875. Polyembryony reflects the number of embryos per seed

One or more

Two or more

Both of above

None of above

876. Which of the following is involved in seedless watermelon production?

Apomixis

Interspecific crosses

Tetraploidy

All of above

877. The quickest way to produce homozygous breeding lines from heterozygous parents is through

Doubled haploids

Aneuploidy

Protoplast fusion

Allopolyploidy

878. Which of the following is an example of an active meristematic tissue in plants?

Sclerenchyma

Cambium

Epidermis

Cuticle

879. Which of the following describes an appropriate technique for commercially propagating chimeras?

Crossing the chimera with a normal plant of the same variety

Stimulating haploid female germ cells taken from the chimera to divide without being fertilized

Taking stem cuttings from the chimera and its descendents

All of above

880. Which of the following accurately describes the role of restriction enzymes in genetic engineering?

Cutting sequences of double-strand DNA into fragments

Making multiple copies of gene sequences of single-strand DNA

Removing the nucleus of a cell and replacing it with another

None of above

881. Mendel's principle of independent assortment is best explained by the arrangement of chromosomes in

Telophase of mitosis

Metaphase of meiosis

Prophase of mitosis

All of above

882. A variant among clones is known as

Variety

Strain

Clone

None of above

883. A cell without cell wall is called

Protoplasm

Protoplast

Plasma

Cytoplasm

884. A medium without addition of agar is called

Solid medium

Liquid medium

Cell suspension culture

Both b and c

885. Fusion of nucleus of one plant cell with cytoplasm of the other cell is called

Heterokaryon

Homokaryon

Cybrid

None of above

886. Distilled water after autoclaving is known as

Deionized water

Double distilled water

Autoclaved water

All of above

The genetic constitution of an organism is termed as 887. Gene Allele Genotype Phenotype A small circular molecule of double stranded DNA naturally occur in bacteria and yeast 888. is called Ti-plasmid Plasmid Plastid All of above 889. The temperature of the autoclave for the sterilization of culture medium is 115°C 119°C 121°C 125°C 890. Which concentration of ethanol is generally applied for asepsis of explants? 90% 80% 70% 55% Which plant part is taken for isolation of protoplast in somatic hybridization? 891. Shoot Leaves Both of above None of above 892. The regeneration of organs or organ-like structure or (pro) embryo from callus is termed as De-differentiation **Re-differentiation** Differentiation All of above 893. Which group of plant hormones induces among other things, cell elongation and cell division? Cytokinin Auxin Gibberellin All of above 894. A cell with two or more identical nuclei as a result of protoplast fusion is known as Heterokaryon Homokaryon Both of above None of above 895. Haberlandt was the first who made attempts for cell cultures in the year 1907 1909 1902 1904 896. All of the following are examples of evolution, except: Mutations in an individual Changes in an allele frequency in a species **Adaptive Radiation**

897.

Interphase Prophase **Anaphase** Telophase

DNA replication occurs in which phase?

898. When the ratio of auxin to cytokinin in tissue culture is low

Rooting can be induced in an explant

Shooting can be induced in callus

Cell division is promoted in explants to produce callus

All of above

899. Mendel's discovery that characteristics are inherited due to the transmission of hereditary factors resulted from his

Careful microscopic examinations of genes and chromosomes

Breeding experiments with many generations of fruit flies

Analysis of the offspring produced from many pea plant crosses

None of above

900. A condition in which pollen is absent or non-functional in flowering plants is called

Incompatibility

Sterility

Male sterility

Compatibility

901. Plants containing only single sex flower is called

Dioecious

Monoecious

Hermaphrodite

All of above

902. Transfer of pollen grains from anther to stigma is called

Pollination

Fertilization

Cloning

All of above

903. Mendel did a lot of work on pea plant due to easy crossing for

Fertilization

Hybridization

Pollination

Emasculation

904. The science dealing with the structure, function and life of the cell is called

Zoology

Cytology

Botany

Taxanomy

905. Heritability is expressed in which unit

Gram

Percentage

Meter

None of above

906. pH of the medium can be increased by the addition of which solution

1N HCl

1N NaOH

1N H₂SO₄

All of above

907. Autoclave is used for sterilization and conversion of sugar into

Fructose

Glucose

Sucrose

All of above

908. Browning, a common problem in *in vitro*, can be controlled by adding

2,4-D

Charcoal

Tap water

Kinetin

909. The process of callus formation in plant tissue culture is termed as

Embryogenesis

Callogenesis

Organogenesis

All of above

910. Undifferentiated mass of cells in *in vitro* cultures is known as

Wound

Callus

Cambium

Meristem

911. Which is a breeding method used by humans to produce new and improved varieties of plants?

Independent assortment

Artificial selection

Natural selection

All of above

912. Micropropagation may be described as

Growing plants in pots

Growing whole plants from very small piece of a parent plant

Growing plants in greenhouses

All of above

913. *In vitro* is a means of growing organisms

Inside other living organisms

Outside

In glass

In plastic pot

914. Somatic cells are

Sex cells

Non sex cells

All body cells

All of above

915. Tissue culturing is sometime described as

DNA fingerprinting

A technique where individual cells are grown and divide in a bath of sterile nutrient fluid containing all required ingredients

A process where organisms reproduce asexually

None of above

916. Rooting in the plant tissue culture medium will be induced by

Auxins

Cytokinins

Gibberelins

BA

917. Which is not haploid among the following?

Sperm cells

Gametophytic tissue

Nucellar tissue

All of above

918. Inheritance of acquired characters is also known as

Darwinism

Lamarckism

Epigenesis

None of above

919. The Chromosome theory of heredity was proposed in 1902 by

Sutton & Boveri

Mendel

Cameraris

Haberlandt

920. In non-allelic interaction the dominating gene is called Dominant gene Epistatic gene Hypostatic gene All of above 921. How many different kinds of amino acids are? 20 22 24 26 922. When a nitrogen box is bonded to a sugar, this complex is know as Nucleoside Nucleotide Nucleic acid All of above The two main steps of artificial hybridization are **Emasculation & pollination** Pollination & fertilization Both of above None of above 924. The characterization of the chromosomal complement of an individual or a species, including number, form, and size of the chromosomes is termed as Ideogram Ideotype Karyotype None of above 925. The change in chromosome that is an exact multiple of basic set of chromosome is termed as **Euploid** b. Aneuploid c. Haploid d. Autopolyploid 926. The petals in a flower are collectively called a. Calyx b. Anther Corolla e. c. Perianth In Pakistan the postharvest losses of fruits and vegetables ranges between; 927. 10-15% a. 15-20% b. c. 20-30% 20-40% 928 Quality of fruits and vegetables for fresh consumption is determined by; Grower a. b. Retailer Wholesaler c. g. Consumer Vegetables or their products are preserved by means of: 929

A physical aging activity in which plant tissue degenerate and ultimately die

Grading

Packing

Vegetable forcing

Fruit ripening

Maturity

Senescence

a & b

h. Processing

b.

a.

b.

i.

c.

930.

is called.

931 Degeneration and death of aerial plant parts like leaves, branches, flowers and fruit but not underground plant parts is called; Senescence a. **Partial senescence** j. Maturity b. None c. 932 Synthetic products which when applied to plants, produce reactions almost identical to hormones, are called a. Plant hormones k. Plant growth regulators b. Photoperiodism activator Plant growth promoters c. 933 Ethylene has horticultural uses such as; Inducing fruit maturity Initiate flowering b. Changing the green colour of fruits c. All of above l. 934 Low temperature injury includes; m. Chilling injury Desiccation heaving a. b. Anthracnose Above all c. 935 Carotene is a precursor of; Vitamin-C a. Vitamin-D b. Vitamin-A n. Ascorbic acid c. 936 A form of controlled atmosphere storage in which the produce is stored in a partial vacuum is called; o. Hypo baric storage Gas storage a. Modified storage b. Controlled atmospheric storage c. 937 Total soluble solids in fruits or vegetables are measured by; Spectrophotometer a. Hydrometer b. p. Refractrometer Tensiometer 938 Acidity is readily determined from a sample of extracted juice by titration with normal alkaline solution; q. 0.1 N NaoH 1.0 N NaoH a h 10.0 N NaoH 0.01 N NaoH c. 939 The best time of harvest for perishable fruits and vegetables is; Morning a. Afternoon b. **Evening** r. Night

940 In mangoes the established method for evaluation of maturity is;

Colour of fruit

Dry matter contents

Size of fruit

Firmness of fruit

a.

b.

S.

C

941 If the fruits are coated with wax the rate of water loss can be reduced upto; 20-30% 30-40% b. 40-50% c. 30-50% t. 942 Sweet potatoes can be cured at around 30°C and 90-95% RH for; 1-2 days prior to storage a. 2-5 days prior to storage b. u. 4-7 days prior to storage 7-8 days prior to storage 943 In apples internal breakdown can be reduced during cold storage by treating with; Sodium a. Magnesium b. **Calcium** v. Potassium c. 944 The most common packing material used for mango and citrus in Pakistan is; Plastic bins b. Bamboo baskets Polythene bags c. w. Wooden crates 945 The optimum storage temperature for apple ranges from; x. 0-1°C 2-5°C a. b. 5-10°C 10-15°C c. 946 After harvest the rate of respiration increases in; Tropical fruits a. Non-climacteric fruits b. Temperate fruits c. y. Climacteric fruits 947 Which is the best indicator of metabolic activities and potential storage life of fresh produce; Rate of transpiration a. z. **Rate of respiration** Rate of ethylene production h Rate of weight loss c. 948 As storage period of most fruits is increased, acidity and vitamin C; a. **Increase** h. Decrease Remain same c. d. Acidity increases while vitamin c decreases 949 During curing of tuber crops; Excessive moisture is lost a. A waxy layer is developed on the fruit b. Storage life increases c. All of above d.

950 The most common radiation dose used for extending shelf-life of fruits and vegetables ranges between;

- a. 0.01-3.0 kGy
- b. 5-10 kGy
- c. 10-20 kGy
- d. 20-30 kGy

${\bf 951\,In\,\,controlled\,\,atmosphere\,\,storage;}$

- a. Temperature and RH is controlled
- b. Nitrogen concentration is controlled
- c. Oxygen and carbon dioxide is controlled
- d. All of the above

952 Chilling injury is common in; Temperate fruits **Tropical and sub-tropical fruits** b. Deciduous fruits c. d. None of above 953 Which enzyme is involved in ethylene synthesis; ACC synthase a. ACC oxidase b. Endoploygalacturonase c. a & b d. 954 Safe storage temperature for most mango cultivars is; 5-6°C a. 7-8°C b. 13°C c. d. 1-2°C 955 During storage of most fresh produce the relative humidity should be; 50-60% 65-75% b. 70-80% c. 85-95% d. 956 Which crop has higher respiration rate; **Cabbage** a. b. Grapefruit Potato c. **Tomato** d. 957 Silver thiosulphate extend vase life of cut flowers by; Anti-bacterial properties a. Anti-oxidant properties b. Anti-ethylene properties c. d. **Anti-auxins properties** 958 Which one is the non-climacteric fruit; Apple a. b. Mango c. Peach d. **Citrus** 959 Internal browning in fresh produce is the result of; Depletion of carbohydrates a. Action of polyphenoloxidase (PPO) b. Loss of moisture C. Loss of chlorophyll d. 960 In onions the maturity is determined by; Bulb size a. h. Bulb colour Leaves colour c. d. **Tops drooping** 961 The stage at which rose flowers should be cut; When petals are fully open a. At tight-bud stage b. When petals starts folding c.

d.

a. b.

c.

d.

When the petals show full colour

Half bud and half open stage

Bud stage

Fully open stage

All of the above

962 The postharvest quality in carnation flowers is observed better when they are cut at;

963 The common fumigant applied to fruit crops after harvest, for controlling postharvest diseases; Ca(OH)2 a. So_2 a. CaO b. Co_2 c. 964 The best method of harvesting citrus fruits is; Pulling b. Clipping **Twisting** c. Twist-picking d. 965 The most effective fungicide for controlling citrus fruit diseases caused by Penicillium spp. a. Sodium orthophenylphosphate (SOPP) b. Carbendazim Thiabendazole (TBZ) c. Topsin-M d. 966 Active ingredients in plants are defined as: Correcting bodily functions A restorative of body ailments b. **Preventing or curing diseases** e. Constituents having a medicinal action c. 967. According to international standards medicinal plants are those plants which have active ingredients in the range of: a. 10% b. 20% 40-60% c. none of above 968. The botanical name of Ispaghol is Termanilia arjuna a. Strychnus nuxvomica b. **Ocimum bacilum** g. Plantago ovata c. 969. The most potential medicinal plant according to HOLY PROPHET (SAW) is Babool a. Zaitoon b. c. Angeer Kalongi h. 970. Best yield of rose oil from rose petals is obtained by Steam distillation a. b. Vacuum distillation Enflurage c. Carbon dioxide extraction i 971. Aromatic biosynthesis in plants takes place by a. Shikimic acid pathway Acetate hypothesis b. Both c. None of above j. 972. Tea leaves contains **Tannins** a Alkaloids h k. Alkaloids and tannins None of above 973. Which plant contain cardio active glycoside Digitalis spp. a. Cardamom l.

b.

c.

Ginseng

Lemon spp.

974.	Coriander contain volatile oil
	m. 0.8%
	a. 1.8%
	b. 2.8%
	c. 5%
975.	Alkaloids are
	a. Alkali like compounds
	n. Neutral compounds
	b. Basic compound
	c. Complex nitrogen compound
976.	Molaurty is defined as number of moles of solute per
	a. 100 Liters of solution
	b. 10 liter of solution
	c. 1000 liter of solution
	o. 1 liter of solution
977.	In scientific literature referencing is necessary to :
	a. Help reader verify the quoted facts
	b. Avoid plagiarizing
	c. Enable readers to follow up
	p. All of above
978.	In the case of uniform experimental material which experiment design is most suitable. a. RCBD
	b. Latin Square
	q. CRD
	c. None of above
979.	In case of two sources of variation, which experimental design is suitable.
	a. CRD
	b. RCBD
	r. Latin Square
	c. ANOVA
980.	In order to decrease standard error
	a. Number of treatment should be increased
	b. Size of experimental blocks should be increased
	c. Number of people taking observation to be increased
	s. Replication numbers should be increased
981.	Tetrazolium chloride test is used for
	a. Estimation of chlorine in leaves
	b. Detection of nitrogen content
	t. Viability of seeds
	c. None of above
982.	In Pakistan consumption of fruits and vegetables
	a. Is equal ratio
	b. Fruit is more
	u. Vegetables is more
	c. According to WHO standard
983	High temperature before harvest in plums causes
	a. Die back
	v. Kelsey spot
	b. Powdery mildew
	c. Sun burn
984	Green bananas are injured when exposed to a temperature below °F: a. 40
	w. 50
	b. 60
	c. 70

985	Ammonia is converted into by bacteria during first step:								
	x. Nitrites								
	a. Nitrides								
	b. Nitrates								
	c. N								
986	Maximum nitrogen fixation per acre islbs annually:								
	y. 250								
	a. 75								
	b. 150								
	c. 125								
987	Cuttings with show more success of rooting:								
701	a. Leaves								
	z. Opening buds								
	b. Slanting cut								
	c. Round cut								
	c. Round cut								
988	removes the inhibiting substances and the organs producing them								
	a. Topping								
	b. Disbudding								
	c. Pinching								
	d. Girdling								
989	is produced in the meso and endocarp of sound ripe apples :								
707	e. Ethylene								
	a. Guaneine								
	b. ABA								
	c. IBA								
990	Tops of peach budded on Marianna plum suddenly fail because of break down:								
	a. Bud union								
	f. Phloem tissue								
	a. Cambial contact								
	b. Lack of callus formation								
991	Growth substances are translocated both up and down in the stem chiefly in the								
	:								
	g. Phloem								
	a. Xylem								
	b. Cortex								
	c. Pith								
992	Mana funita annu formation is absorbed in apple due to								
992	More fruits spur formation is observed in apple due to pruning : h. Light								
	a. Moderate								
	b. Heavy								
	c. No pruning								
993	Light summer pruning helps in proper:								
	i. Coloration								
	a. Development								
	b. Maturity								
	c. Quality								
004									
994	Tree growth becomes more compact as a result of: a. Thinning out								
	· · · · · · · · · · · · · · · · · · ·								
	j. Heading back								
	b. Fine pruning								
	c. No pruning								
995	Green leaves of plants are able to all the vitamins that they can use :								
	k. Synthesize								
	a. Reduce								
	b. Uptake								
	c. Store								

996	Soil particles carry charge: l. Negative	
	a. Positive	
	b. No charge	
	c. Positive + Negative	
997	Citrus canker is a :	
171	a. Fungal disease	
	m. Bacterial disease	
	b. Nutrient deficiency	
	c. Presence of pebbles in soil	
998	Soil solution becomes under dry conditions :	
	n. Dilute	
	a. Very dilute	
	b. Concentrated	
	c. Very concentrated	
999	Nitrogen is absorbed in form of:	
	a. Nitride	
	b. Nitrite	
	o. Nitrate	
	c. NH ₄	
1000	Many non essential elements are toxic to plants in amounts	•
1000	a. Very low	•
	p. Low	
	b. High	
	c. Very high	
	• •	

Keys of MCQ's

Q #	ANS						
1	В	2	A	3	В	4	A
5	A	6	В	7	C	8	D
9	C	10	D	11	D	12	A
13	A	14	D	15	D	16	A
17	D	18	D	19	D	20	D
21	В	22	С	23	A	24	С
25	A	26	D	27	A	28	A
29	В	30	В	31	A	32	A
33	В	34	D	35	A	36	A
37	В	38	D	39	В	40	A
41	D	42	В	43	С	44	D
45	D	46	D	47	A	48	A
49	A	50	D	51	A	52	В
53	С	54	В	55	С	56	A
57	С	58	D	59	A	60	В
61	С	62	A	63	В	64	D
65	В	66	С	67	D	68	С
69	В	70	A	71	D	72	A
73	A	74	A	75	В	76	В
77	С	78	A	79	С	80	В
81	В	82	В	83	В	84	A
85	В	86	D	87	A	88	D
89	D	90	С	91	A	92	С
93	A	94	С	95	D	96	A
97	A	98	A	99	A	100	A
101	В	102	A	103	A	104	A
105	A	106	A	107	A	108	С
109	A	110	В	111	A	112	A
113	A	114	A	115	A	116	В
117	A	118	В	119	A	120	A
121	A	122	A	123	A	124	D
125	D	126	С	127	С	128	A
129	A	130	С	131	A	132	A
133	A	134	A	135	A	136	A
137	В	138	A	139	В	140	A
141	A	142	D	143	A	144	С
145	A	146	С	147	A	148	A
149	В	150	В	151	A	152	A
153	A	154	В	155	D	156	A
157	A	158	A	159	A	160	С
161	В	162	D	163	A	164	D
165	A	166	A	167	D	168	A
169	С	170	A	171	A	172	D
173	A	174	С	175	В	176	A
177	С	178	A	179	В	180	D
181	A	182	С	183	С	184	A
185	C	186	В	187	В	188	С
189	A	190	A	191	D	192	С
193	A	194	A	195	A	196	В
197	C	198	A	199	C	200	A
201	A	202	D	203	В	204	C
205	В	206	C	207	С	208	С
209	В	210	D	211	D	212	D

212	ъ	014		015		216	
213	D	214	C	215	C	216	A
217	A	218	В	219	В	220	C
221	C	222	С	223	C	224	A
225	A	226	D	227	A	228	A
229	A	230	С	231	A	232	A
233	A	234	A	235	A	236	В
237	A	238	С	239	A	240	В
241	A	242	A	243	A	244	A
245	A	246	A	247	A	248	С
249	A	250	С	251	C	252	D
253	В	254	A	255	В	256	C
257	A	258	D	259	C	260	В
261	С	262	A	263	D	264	A
265	C	266	A	267	В	268	C
269	В	270	В	271	C	272	C
273	A	274	A	275	A	276	C
277	C	278	С	279	В	280	D
281	A	282	В	283	С	284	A
285	D	286	D	287	В	288	В
289	A	290	В	291	С	292	A
293	С	294	A	295	D	296	С
297	D	298	D	299	D	300	A
301	A	302	С	303	A	304	A
305	A	306	A	307	С	308	A
309	A	310	A	311	A	312	В
313	В	314	D	315	С	316	С
317	A	318	В	319	A	320	С
321	A	322	С	323	В	324	A
325	С	326	A	327	A	328	A
329	A	330	A	331	D	332	D
333	D	334	В	335	A	336	C
337	C	338	D	339	В	340	C
341	В	342	C	343	A	344	D
345	D	346	A	347	A	348	D
349	C	350	В	351	C	352	В
353	D	354	D	355	A	356	D
357	A	358	A	359	D	360	D
361	A	362	A	363	A	364	C
365	В	366	В	367	D	368	A
369	В	370	A	371	D	372	C
373	C	374	A	375	C	376	C
377	D	378	D	379	D	380	A
381	D	382	D	383	D	384	A
385	D	386	В	387	В	388	D
389	В	390	C	391	В	392	C
393	A	394	D	395	A	396	A
393	D	398	A	399	$\frac{A}{C}$	400	A
401	C	402	C	403	A	404	A
405	C	402	A	407	A A	404	A
409	A	410	A	411	D A	412	D
413	C	414	A	415	D	416	D
413	В	414	B	415	В	420	A
		418					D
421	A		B C	423	В	424	
425	С	426		427	A	428	В
429	D	430	A	431	В	432	В
433	С	434	A	435	В	436	В

437	A	438	С	439	С	440	С
441	C	442	D	443	D	444	В
445	D	446	В	447	В	448	A
449	В	450	В	451	D	452	A
453	A	454	В	455	В	456	D
457	A	458	В	459	C	460	C
461	D	462		463	A	464	В
465	В	466	A B	467	D A	468	С
469	С	470	В	471	D D	472	C
473	В	•	В	475	В	476	C
477	С	474 478	A	479	D		В
481			C		В	480 484	С
	A B	482	В	483			В
485		486		487	A	488	
489	D	490	C	491	В	492	В
493	В	494	A	495	В	496	В
497	C	498	A	499	В	500	В
501	C	502	В	503	C	504	В
505	A	506	В	507	C	508	D
509	A	510	В	511	C	512	В
513	C	514	D	515	A	516	D
517	В	518	D	519	C	520	В
521	В	522	C	523	С	524	D
525	В	526	В	527	D	528	C
529	D	530	D	531	A	532	A
533	C	534	С	535	C	536	C
537	C	538	A	539	В	540	D
541	В	542	D	543	D	544	В
545	D	546	D	547	C	548	A
549	D	550	В	551	В	552	D
553	D	554	D	555	В	556	С
557	D	558	С	559	В	560	D
561	В	562	В	563	A	564	В
565	С	566	A	567	С	568	С
569	С	570	A	571	В	572	A
573	A	574	A	575	С	576	С
577	В	578	D	579	D	580	D
581	В	582	A	583	D	584	A
585	В	586	В	587	A	588	С
589	С	590	A	591	A	592	A
593	A	594	D	595	D	596	A
597	В	598	A	599	В	600	D
601	С	602	В	603	С	604	A
605	D	606	A	607	A	608	В
609	D	610	В	611	С	612	С
613	A	614	В	615	С	616	A
617	В	618	A	619	В	620	A
621	В	622	A	623	A	624	D
625	С	626	A	627	В	628	В
629	A	630	В	631	В	632	D
633	D	634	В	635	D	636	С
637	В	638	D	639	D	640	D
641	В	642	С	643	В	644	D
645	В	646	A	647	A	648	В
649	A	650	D	651	С	652	A
653	A	654	С	655	В	656	C
657	D	658	В	659	D	660	A
			_				

661	A	662	C	663	D	664	В
665	$\frac{A}{C}$	666	В	667	C	668	A
669	C	670	В	671	A	672	B
673	В	674	C	675	D A	676	D
677	D	678	C	679	A	680	C
681	A	682	<u>В</u>	683	A	684	C
685	C	686	A	687	$\frac{A}{C}$	688	D
689		690	A D	691	В	692	D
693	D	694	C	695	<u>В</u>	696	C
697	C	698	C	699	B	700	C
701	В	702		703	В	704	A
701	В	702	C	707	D	704	A
709	C	710	В	711	C	712	B
713	A	714	C	715		716	D
717	$\frac{A}{C}$	714	C	719	A	720	A
721	C	722	C	723	A	724	A
721	В	726	В	727	C	724	B
			D D		В		
729 733	A D	730 734	D D	731 735	C	732 736	A C
737	D D	734	D D	739	В	740	D
741	C C	738	B	743	<u>В</u>	740	
741	C	742	D B	743	В	744	A B
745	A	750	<u></u> В	751	<u>В</u> А	752	В
	D A	750 754			D A		D
753 757	C	754 758	A A	755 759	D D	756 760	В
761	D	762	B	763	C	764	D
765		766	C		A	768	D
769	A B	770		767 771	D A		
	C	+ +	D			772	A
773	D	774	A	775	B C	776	A D
777		778	A B	779	C	780	
781	D D	782	В	783	C	784	A D
785 789	В	786 790		787 791		788 792	
793	В	790	A C	791	B D		A C
797	C	794		799		796 800	В
	D	+	D		A C		С
801		802	D	803		804	
805	<u>A</u>	806	A	807	D	808	A
809	A D	810	B D	811 815	B A	812	D A
813		814				816	
817 821	D C	818 822	A B	819 823	A D	820 824	A C
825	В	826	A	823	B	828	C
829	<u>В</u> А	830	C	831	В В	832	В
833	C	834	В	835	A	836	В
837	C	838	A	839	A	840	С
841	В	842	A	843	B	844	В
845	C	846	A	847	В	848	A
849	В	850	C	851	В	852	A
853	В	854	A	855	В	856	A
857	В	858	B	859	В	860	C
861	C	862	В	863	В	864	В
865	A	866	В	867	В	868	В
869	B	870	A	871	A	872	В
873	C	874	A	875	B	876	С
877		878	B	879	В	880	
881	A B	882	В	883	В	884	A D
001	D	004	ъ	003	ъ	004	D

885	С	886	С	887	С	888	В
889	С	890	С	891	С	892	В
893	A	894	В	895	С	896	С
897	С	898	В	899	С	900	С
901	A	902	A	903	В	904	В
905	В	906	В	907	В	908	В
909	В	910	В	911	В	912	В
913	С	914	С	915	В	916	Α
917	С	918	В	919	A	920	В
921	A	922	A	923	A	924	C
925	A	926	С	927	D	928	A
929	С	930	С	931	В	932	В
933	D	934	A	935	C	936	A
937	C	938	A	939	A	940	C
941	D	942	C	943	C	944	D
945	A	946	D	947	В	948	A
949	D	950	A	951	A	952	В
953	D	954	C	955	D	956	A
957	D	958	D	959	В	960	D
961	В	962	C	963	A	964	В
965	В	966	C	967	D	968	C
969	D	970	D	971	D	972	C
973	В	974	A	975	В	976	D
977	D	978	С	979	С	980	D
981	С	982	С	983	В	984	В
985	A	986	A	987	В	988	A
989	A	990	В	991	A	992	A
993	A	994	В	995	A	996	A
997	В	998	A	999	C	1000	В