

- c. *Atropa belladonna*  
d. *Plectranthus barbatus*
25. Madman's medicine or pagalkadawa is the common name for  
c. *Withania somnifera*  
d. *Rauvolfia serpentina*
26. In Psyllium, flea refers to  
c. Boat shaped seeds  
d. Colour, size and shape of seeds
27. Reserpine from *Rauvolfia serpentina* was identified by ..... and ..... of Swiss scientist  
c. Schiller and Mueller in 1953  
b. Chopra in 1953
28. Non nodule forming legume crop which has laxative property.....  
c. French bean      b. Senna      c. Cowhedge      d. None
29. Variety of periwinkle which is resistant to dieback, collar rot and root rot diseases  
b. Prabal      b. Nirmal      c. Dhawal      d. Poshita
30. Ashwagandha is commercially grown in ..... state.  
c. Andrapradesh      c. Madhyapradesh  
d. Maharastra      D. Gujarat
31. The variety of senna suitable for the leaf harvest  
c. Sona      c. ALFT- 2  
d. Gujarat senna- 1      d. Anand late selection
32. .... and ..... are the tetraploid and diploid varieties of *Solanum viarum*.  
c. BARC strain and Glaxo strain      c. Arka sanjeevini and Arka mahima  
d. Arka mahima and Arka sanjeevini      d. Glaxo strain and BARC strain
33. Ashwagandha can be propagated by.....  
b. Cutting      b. Seeds      c. Root stump      d. All
34. The crop duration of *Plectranthus barbatus* is  
c. 115-120 days      b. 135-150 days      c. 175-190 days      d. 215-230 days
35. Indian Ginseng is the common name of.....  
a. *Withania somnifera*      c. *Solanum viarum*  
b. *Rauvolfia serpentina*      d. *Atropa belladonna*
36. Nematode is the major problem in  
c. Costus      b. Dioscorea      c. Coleus      d. Periwinkle
37. The genus name *Atropa* derived from Greek word *Atropos* which means  
c. Deadly night shade      c. God of healing  
d. Goddess of death      d. God of sleep
38. Who asserted that medicine is a science and art  
c. Aristotle      c. Theophrastus  
d. Hippocrates      d. Charaka
39. Leading state for the production of Isabgol.....  
c. Rajasthan      c. Gujarat  
d. Maharastra      d. Uttar pradesh
40. .... is the largest producer of *Papaver somniferum*  
a. Mexico      b. India      c. China      d. USA

## II. Fill in the blanks

5×0.2= 1

14. Egyptian God of Healing : Imhotep :: Greeks God of Healing : .....
15. Chinese Pharmacopoeia : Pen-T Sao Keng Mu :: Greeks Pharmacopoeia: .....
16. Natural Histry : Pliny :: Canon of Medicine:.....
17. Father of Experimental Medicine : Galen :: Father of Modern Medicine : .....
18. Sapogenin : Steroidal alkaloid :: Hyoscyamine : .....

## III. State whether the following statements are TRUE or FALSE

10×0.2=2

1. .... Gum resin is the economic part of Guggal.

2. .... In dioscorea dry period between monsoon precipitations results in higher diosgenin in tubers.
3. .... Belladonna is grown as annual crop in temperate part of India.
4. .... In costus diosgenin content is maximum when the crop is in an active stage of vegetative growth.
5. .... French psyllium is superior to Indian psyllium in quality.
6. .... *Cassia acutifolia* commonly called as Tinnavelly senna.
7. .... Isabgol is used in food industry.
8. .... Solanum is rich source of sennosides.
9. .... Diosgenin is a tropane alkaloid obtained from the rhizomes of dioscorea.
10. .... Senna can be cultivated in saline soils.

IV. Match A column with B and A column with C

20×0.2=4

A	B	C
11. <i>Withania somnifera</i>	a. Shweta	i. Dioscoreaceae
12. <i>Plectranthus barbatus</i>	b. Dhawal	ii. Plantaginaceae
13. <i>Dioscorea floribunda</i>	c. CIM- Sheel	iii. Papavearceae
14. <i>Commiphora mukul</i>	d. Nagori	iv. Apocynaceae
15. <i>Plantago ovata</i>	e. Sona	v. Kashi kateri
16. <i>Solanum viarum</i>	f. FB(C)- 1	vi. Solanaceae
17. <i>Papaver somniferum</i>	g. Niharika	vii. Lamiaceae
18. <i>Catharanthus roseus</i>	h. RRL-20-2	viii. Leguminaceae
19. <i>Rauvolfia serpentina</i>	i. Marusudha	ix. Burseraceae
20. <i>Cassia angustifolia</i>	j. K-8	x. Kashi kanagile

1. Indian Dill oil is not preferred in pharmacy due to the presence of 0.2\*20= 4  
 a) Carvone                      b) Phellandrene                      c) Dillapiole                      d) Dihydroxy caravone
2. Sugandhi is a variety of  
 a) Khus                      b) Lemongrass                      c) Lavender                      d) Basil
3. Which of the following varieties yields best quality Patchouli Oil?  
 a) Singapore                      b) Indonesia                      c) Jahore                      d) None of these
4. In which of the following Ratooning is not possible  
 a) Citronella                      b) Lemongrass                      c) Vetiver                      d) Palmarosa
5. *Cymbopogon flexuosus* is known as  
 a) East Indian Lemongrass.                      b) West Indian Lemongrass.  
 c) North Indian lemongrass.                      d) South Indian Lemongrass
6. Rhodinal is obtained from  
 a) Basil                      b) Geranium                      c) Fennel                      d) Lemongrass
7. Vetiver can be successfully cultivated in  
 a) Wet condition                      b) Dry condition                      c) Arid condition                      d) All
8. Chirharit is a variety of  
 a) Citronella                      b) Lemongrass                      c) Lavender                      d) Vetiver
9. Which of the following is not a variety of citronella  
 a) Manjari                      b) Manjusha                      c) Mandakini                      d) OD-19
10. Lemon grass is propagated through  
 (a) Both seeds and slips                      (b) Seeds                      (c) Slips                      (d) Stem cuttings
11. Vetiver could be used as  
 (a) Soil binder                      (b) Fodder                      (c) Aromatic crop                      (d) All the three

**I. Choose the correct answer**

**10×0.5=5**

1. Clove is originated in .....
  - a. Indonesia
  - b. Myanmar
  - c. Indo Malayan region
  - d. Indo China region
2. Moisture content of cured cardamom should be  
a. 20%                      b. 10-12%                      c. 5-10%                      d. None
3. Following continent is known as "Land of Spices"  
a. Madagascar              b. Malaysia              c. Moluccas              d. Mexico
4. Method of pollination in pepper is referred as .....  
a. Clitogamy              b. Homogamy              c. Geitonogamy              d. None
5. The largest producer of vanilla in the world.....  
a. Indonesia              b. Madagascar              c. India              d. Mexico
6. The alkali used for retention of green colour of cardamom capsule during curing is  
a. NaOH                      b. Na<sub>2</sub>CO<sub>3</sub>                      c. CaO                      d. None of the above
7. The type of vanilla which rank in quality is  
a. Bourbone vanilla                      c. Bourbon- like vanilla  
b. Java vanilla                      d. Mexican vanilla
8. The variety of pepper resistant to rootknot nematode is  
a. Panchami              b. Pournami              c. Srikara              d. Karimunda
9. The race of cardamom recommended for lower elevation is  
a. Mysore              b. Malabar              c. Vazukka              d. Both a and b
10. Inflorescence of black pepper is  
a. Spadix              b. Panicle              c. Spike              d. None

**II. Fill in the blanks**

**6×0.25=1.50**

1. Indian dry ginger classified as ....., ..... and .....
2. Oleoresin and essential oil percentage in ginger is..... and .....
3. Origin of turmeric is .....
4. *Curcuma amada* is commonly called as.....
5. The Head quaters of Indian Institute of Spice Research is located at.....
6. Cardamom flowers are pollinated by.....

**III. State the whether the following statements are True or False 6×0.25= 1.50**

1. Bleached ginger is dry ginger

Alanka  
 Maslin - Turkey  
 repai - Kashmir

Match the Following

151.	1. Senna <b>b</b> 2. Opium <b>a</b> 3. Glycyrrhizin <b>c</b> 4. Dill <b>c</b> 5. Asgandh <b>d</b>	a. God of sleep b. Laxative c. Carminative d. Sedative e. Liquorice	152.	1. Coleus <b>b</b> 2. Begonia <b>ca</b> 3. Grape <b>a</b> 4. Croton <b>d</b> 5. Ber <b>e</b>	Hardwood cutting Softwood cutting Ring budding Leaf cutting Air layering
153.	1. Chaubattia Alankar 2. Chaubattia Madhu 3. Chaubattia Kesari 4. Arka Puneet <b>e</b> 5. Arka Neelkiran <b>b</b>	a. Turkey x Charmagh b. Alphanso x Neelum c. St. Amrs x Charmag d. Kaisha x Charmagh e. Alpanso x Bangpali	154.	1. Tulip tree <b>b</b> 2. Rukmini <b>d</b> 3. Kachnar <b>c</b> 4. Golden showere 5. Snow bush <b>a</b>	a. Ivora b. Pyrostegia c. Bauhinia d. Phyllanthus e. Spathodea
155.	1. Pusa Nutan 2. Pusa Shukti 3. Pusa Prathiba 4. Pusa Pasand 5. Pusa Shreyali	a. Summer Squash b. Mango c. Ash Gourd d. Cauliflower e. Ridge Gourd	156.	1. Apple 2. Banana 3. Walnut 4. Orange 5. Pineapple	a. China b. India c. UK d. Brazil e. Thailand
157.	1. Lye Soln 2. Brine Soln 3. Syrup 4. Pickling 5. Lacquing	a. 20-25% Sugar b. Golden Enamel c. 1-3% Common Salt d. 15-20% Salt e. 1-2% Caustic Soda	158.	1. Catkins 2. Corymb 3. Spadix 4. Spike 5. Panicle	a. Sword Lily b. Grapes c. Mulberry d. Coconut e. Pear
159.	1. Biocide 2. Pulsing 3. Insecticide 4. Fungicide 5. Growth Retardent	a. Malathion b. Thiram c. CCC d. Sucrose e. 8 HQC	160.	1. Gurgaon Attempt 2. Sevagram 3. Shanti Niketan 4. Martandam 5. Etawah	a. Hatch b. A. Mayer c. F.L. Bryne d. M. Gandhi e. R. Tagore

30

72

150

can  
59

uno  
20

NA  
71

75

50

32

10

8

75

91

30

79

141.	Filler planting is done in _____ system				
	a) Hexagonal	b) Quincunx	c) Rectangular	d) Square	
142.	HDP is achieved by				
	a) Using dwarf root stock	b) Resorting to dwarf scion variety	c) Regulating shape of plant	d) All of these	
143.	_____ is a system of planting at ultra-low spacing				
	a) HDP	b) Meadow orcharding	c) Quincunx	d) Contour system	
144.	Meadow orcharding originated from				
	a) England	b) Israel	c) India	d) China	
145.	Total number of plants required for planting in 1 ha area with 10x10 m spacing under Quincunx system is				
	a) 101	b) 151	c) 181	d) 201	
146.	Spacing followed in HDP mango				
	a) 1x1 m	b) 2.5x2.5 m	c) 5x5 m	d) 8x8 m	
147.	_____ is a Tall (LCOT) X Tall (CCNT) coconut hybrid recently released by AICRP-Palms centre, Veppakulam (TNAU, Tamil Nadu), first of its kind in the country as well as in the south Asia				
	a) VPM-1	b) VPM-2	c) VPM-4	d) VPM-5	
148.	_____ is a fresh, higienic and unfermented energy drink from coconut inflorescence				
	a) Neera	b) Kalparasa	c) Fenny	d) None of these	
149.	Chromosome number (2n) of mango is				
	a) 30	b) 40	c) 46	d) 34	
150.	Suitable dwarfing scion cultivar of papaya for HDP is				
	a) Pusa Nanha	b) Coorg honey	c) Pusa majesty	d) Pusa delicious	
<b>Match the Following</b>					
151.			152.		
1	Bulb	<i>Fragaria spp</i>	1	Cremocarp	Pomegranate
2	Corm	<i>Allium spp</i>	2	Berry	Pear
3	Rhizome	<i>Curcuma longa</i>	3	Pome	Guava
4	Tuber	<i>Iris spp</i>	4	Balausta	Citrus
5	Stolan	<i>Solanum tuberosum</i>	5	Hesperidium	Carrot
153.			154.		
1	Aggregate fruit of achenes	Raspberry	1	Apricot	Endocarp
2	Aggregate fruit of drupes	Papaya	2	Cashewnut	Mesocarp
3	Aggregate fruit of follicles	Strawbwrry	3	Coconut	Bracts, perianth & seeds
4	Aggregate fruit of berries	<i>Manolia grandiflora</i>	4	Banana	Peduncle, cotyledon & seed
5	Berry	Annona	5	Jackfruit	Mesocarp & endocarp
155.			156.		
1	Receme	Cherry	1	Entamophily	Birds
2	Catkin	Grape	2	Ornithophily	Animals
3	Corymb	Mulberry	3	Zoophily	Insects
4	Fasicles	Raspberry	4	Anemophily	Water
5	Panicles	Pear	5	Hydrophily	Wind
157.			158.		
1	Cleistogamy	<i>Annona muricata</i>	1	Komdesa	Sweet and Sour cherry
2	Homogamy	<i>Annona reticulata</i>	2	Duke cherry	Peach and Sour cherry
3	Protoandry	Citrus	3	Pyronia	<i>Poncirus trifoloata</i> X Sweet orange
4	Protogyny	Pansy	4	Royal	Pear and Quince
5	Herkogamy	Grape	5	Citrance	Persian walnut and California walnut

## HORTICULTURE - JRP - 2016 TEST SERIES

1.20 am

### Multiple Choice Questions

1.	The word Horticulture is derived from _____ words; hortus means garden and colere means to cultivate			
	a) English	b) German	c) Latin	d) French
2.	The word 'Oleries' means			
	a) field shrubs	b) Pot herb	c) pot shrub	d) hedge plant
3.	_____ is the art of beautifying a piece of land using garden design, methods and plant material			
	a) Floriculture	b) Architecture	c) Landscape gardening	d) none of these
4.	ICMR recommendation of fruits and vegetables is _____ & _____ g percapita per day respectively			
	a) 120 & 280	b) 120 & 240	c) 160 & 280	d) 120 & 180
5.	Among the following vegetables highest vit-A present in			
	a) Carrot	b) Beet leaf	c) Spinach leaves	d) Fenugreek leaves
6.	Among the following fruits vit-A rich fruit is			
	a) Cashewnut	b) Bael	c) Mango	d) Aonla
7.	Among the following fruits _____ is/are rich in Riboflavin			
	a) Bael	b) Papaya	c) Litchi	d) All of these
8.	Among the following vegetables highest ascorbic acid is present in			
	a) Drumstick leaves	b) coriander leaves	c) chilli	d) tomato
9.	Among the following fruit crops highest vit-C is present in			
	a) Aonla	b) Guava	c) Barbados cherry	d) Lime
10.	Highest % carbohydrate present in _____ fruit & _____ vegetable			
	a) Karonda & Potato	b) Apricot & Topioca	c) Date & Sweet potato	d) Banana & Curry leaves
11.	Among the vegetables highest protein present in			
	a) Peas	b) Cowpea	c) Indian bean	d) cluster bean
12.	_____ is/are the rich source of protein			
	a) cashew nut	b) Almond	c) Walnut	d) All of these
13.	Among the following fruits highest fat (%) present in			
	a) walnut	b) cashew nut	c) almond	d) avocado
14.	_____ is rich source of fiber			
	a) papaya	b) mango	c) guava	d) sweet orange
15.	Among the leafy vegetables, highest Ca (mg/100 g) present in			
	a) Curry leaves	b) Coriander leaves	c) Amaranthus	d) Fenugreek leave
16.	Rich source of Fe is			
	a) Karonda	b) Mango	c) Litchi	d) Apple
17.	HDP was first attempted in _____ crop			
	a) Banana	b) Guava	c) Apple	d) Mango
18.	_____ is the root stock suitable for HDP in guava			
	a) Pusa srijan	b) <i>Psidium friedrichsthalianum</i>	c) Watermelon	d) both a & b
19.	Among the vegetables _____ accounts for maximum share in exports trade			
	a) Onion	b) Okra	c) Potato	d) Tomato
20.	_____ is a deciduous tropical fruit crop			
	a) Mango	b) Banana	c) Sapota	d) None of these
21.	Fruit type in litchi			
	a) Berry	b) Syconus	c) Nut	d) Hesperidium

2251. Edible part of sweet corn is  
 a. Chins (b) Greece c. Brazil d. Turkey  
 a. Kernel b. Spike c. Seeds d. Stem
52. Quickest method of flower drying  
 a. Microwave b. Hot air oven c. Solar drier d. Sand drying
53. Cowpea is ..... type plant  
 a. Long day (b) Day neutral c. Short day d. Semi long day
54. Which one is a selfing var. of onion?  
 a. Ratna b. Arka Bindu c. Pusa Madhvi d. Sterotonin
55. Pusa Kanchana is a var. of  
 a. Turnip b. Beet root c. Radish d. Pumpkin
56. Phule Shubhangi var. of Cucumber having parents  
 a. Himangi x Chins long b. Pusa Saryog x Poinsette  
 c. Poinsette x Kalyanpur Agathi d. Straight Eight x Poinsette
57. Which of the following is/ are the var. of pointed gourd?  
 a. Bihar Sharif b. Kalyani c. Damodar (d) All
58. Arka Ajit var. of pea is rest to  
 a. Powdery mildew b. Rust c. Wilt (d) Both a and b
59. Baby potato is a variety of  
 a. Potato (b) Lima bean c. Sweet potato d. Chinese potato
60. Leaf lamina cutting is the common method of propagation in  
 a. Rex begonia b. Peperomia c. Ivy d. Colocasia
61. The plant which loves sun shine are known as  
 a. Heliotrops b. Pagiotropis c. Geotropis d. Pseotropis
62. Amorphophallus yam is used as  
 a. Anti sterility (b) Blood purifier c. Apetizer d. Cardian stimulant
63. Perennial onion is also known as  
 a. Shallot b. Leek c. Welsh onion d. Rhubarb
64. 1<sup>st</sup> commercial hybrid of sweet paper in India  
 a. Pusa Dipthi c. Bharat c. Pusa Navoan d. Bull Nose
65. AgNO<sub>3</sub> is used for induction of ..... flowers in cucurbits  
 a. Female (b) Male c. Androecious (d) both a and c
66. which of the following vegetable containing highest vitamin-A  
 a. Cucumber b. Pointed Gourd c. Pumpkin d. Cowpea
67. Following landscape plant is a cycad  
 a. Portulaca b. Cacyota (c) Zamia d. Cortaderia
68. Harvesting index is a ratio of  
 a. Biological yield: Economic yield (b) Economic yield: Biological yield  
 c. Total weight: Dry weight d. Dry weight: Total weight
69. The term hydroponics was derived by .....  
 a. Boyle (b) Setchell c. Jemson d. Licon
70. "Fruit Growing in India" is written by .....  
 a. H.P. Oinso b. M.S. Randhava c. Dr. R.N. Singh (d) W.B. Hays
71. Madhu Bindu is an export cultivar of  
 a. Papaya b. Pineapple c. Onion d. Garlic
72. In double faced shrubbery tall shrubs are planted in  
 a. Corner c. Centre c. Front d. Near the wall
73. Madhool is a ..... variety of date palm.  
 a. Late b. Early c. Mid d. Black colour fruit
74. Bisexual flowers are also known as  
 a. Bipectinate b. Disexual c. Bisporangiate d. None

47.	_____ is a flower spice crop			
	a) Clove	b) Saffron	c) Cinnamon	d) Fenugreek
48.	Chilli is a _____ crop			
	a) Horticultural spice	b) Plantation spice	c) Agronomic spice	d) Both a & c
49.	Saffron belongs to family			
	a) Alliaceae	b) Lauraceae	c) Iridaceae	d) Araceae
50.	_____ is a multistoreyed plantation crop			
	a) Coconut	b) Clove	c) Nut mug	d) Cashew nut
51.	_____ are specialized roots found in parasitic plants that penetrate the tissue of host plant			
	a) Aerial roots	b) Haustoria	c) Pneumatophores	d) Buttress roots
52.	_____ is a naked peduncle which generally arises from a basal rosette of vegetative leaves and functions in elevating flowers well above the ground			
	a) Scape	b) Culm	c) Tiller	d) Areole
53.	Cell wall of plants is composed of			
	a) Cellulose	b) Chitin	c)	d)
54.	_____ is the stem type present in asparagus, which perform photosynthetic activity			
	a) Succulent stem	b) Cladode	c) Caudiciform	d) Pachycaul
55.	_____ is a modified shoot with every shoot internodes over which flowers or leaves are borne			
	a) Burl	b) Pseudobulb	c) Spur	d) Tendril
56.	_____ is the stem reaping or lying flat but rooting at the nodes			
	a) Repent	b) Prostrate	c) Decumbent	d) Frutescent
57.	_____ is a determinate shoot that completely terminates into flower or inflorescence and flowers only once during their life time			
	a) Hapaxanthic	b) Dichotomous	c) Monopodial	d) Pleoanthic
58.	A pair of leaf like appendages present at the point of attachment of leaf, sometimes modified as spines or gland are			
	a) Veins	b) Petiole	c) Stipules	d) Stipels
59.	The bract enclosing inflorescence			
	a) Glumes	b) Lemma	c) Spathe	d) Epicalyx
60.	_____ captures and digest insects			
	a) Tentacular leaves	b) Trap leaves	c) Pitcher leaves	d) All of these
61.	_____ is a cup like or tubular structure, around or atop the ovary bearing sepals, petals and stamens along its margin			
	a) Epicalyx	b) Bract	c) Hypanthium	d) Nectary
62.	The unit of gynoecium that encloses one or more ovules			
	a) pistil	b) carpel	c) disc	d) stamen
63.	Flowers with only one plane of symmetry			
	a) Actinomorphic	b) Zygomorphic	c) Birdial	d) Asymmetric
64.	_____ is a stamen fusion type where stamens are in two groups			
	a) Epipetalous	b) Monodelphous	c) Diadelphous	d) Syngenesious
65.	When sepals, petals and stamens are attached at apex of an inferior ovary is termed as			
	a) Hypogynous	b) Perigynous	c) Epigynous	d) Epiperigynous
66.	A group or cluster of bracts subtending an entire inflorescence is			
	a) Involucre	b) Involucel	c) Scape	d) Rachis
67.	_____ is a secondary axis of a compound umbel			
	a) Rachis	b) Ray	c) Spathe	d) Scape
68.	Cauliflorous inflorescence is found in			
	a) cauliflower	b) cabbage	c) Jack fruit	d) Tamarind
69.	In palm, the inflorescence arises below the crown shaft is			



NA

22.	_____ is an example for aggregate fruit			
	a) Fig	b) Mulberry	c) Pineapple	d) Strawberry
23.	Herbaceous fruit crop is/are			
	a) Banana	b) Pine apple	c) Phalsa	d) both a & b
24.	Edible part in grape			
	a) Mesocarp & Endocarp	b) Thalamus & Pericarp	c) Pericarp & Placenta	d) Stalk of fruit & Thalamus
25.	Family of Bael is			
	a) Myrtaceae	b) Rutaceae	c) Tiliaceae	d) Annonaceae
26.	_____ are salinity sensitive fruit crops			
	a) Apricot	b) Avocado	c) Peach	d) All of these
27.	_____ is an climacteric fruit			
	a) Grape	b) Pomegranate	c) Pineapple	d) Jackfruit
28.	After harvesting, during ripening ethylene evolution is maximum in			
	a) Citrus	b) Grape	c) Pineapple	d) Sapota
29.	Terminal bearing on old growth is seen in			
	a) Jackfruit	b) Bael	c) Loquat	d) Mango
30.	Plants able to grow on rocks are called as			
	a) Epiphyte	b) Terrestrial	c) Petrophyte	d) Psammophyte
31.	_____ is a xerophytic fruit crop			
	a) Banana	b) Ber	c) Guava	d) Aonla
32.	Plants which always grow in shade are			
	a) Sciophytes	b) Facultative	c) Obligate	d) None of these
33.	Strawberry is a _____ plant			
	a) Short day	b) Day-neutral	c) Long day	d) None of these
34.	Family having highest number of cultivated vegetables			
	a) Cruciferaceae	b) Cucurbitaceae	c) Solanaceae	d) Alliaceae
35.	Leek is belongs to family			
	a) Alliaceae	b) Liliaceae	c) Araceae	d) Aizoaceae
36.	Vegetable tolerant to soil acidity			
	a) Potato	b) Sweet potato	c) Water melon	d) All of these
37.	Vegetable suitable for saline soils			
	a) Bitter gourd	b) Tomato	c) Snake gourd	d) Okra
38.	Pigments responsible for fruits and flower colour are present in			
	a) Chloroplast	b) Nucleus	c) Vacuole	d) Lysosome
39.	Red colour in vegetables is due to			
	a) Carotenoids	b) Anthocyanin	c) Chlorophyll	d) All of these
40.	_____ suitable for hedge purpose			
	a) Duranta	b) Tecoma	c) Bougainvillae	d) All of these
41.	_____ is suitable for dry flower production			
	a) Lady's lace	b) Marigold	c) Aster	d) Gaillardia
42.	Gladiolus is propagated through			
	a) Bulb	b) Corm	c) Rhizome	d) Tuber
43.	Carnation is a _____ plant			
	a) short day	b) day-neutral	c) long day	d) None of these
44.	_____ is an annual spice crop			
	a) Onion	b) Clove	c) Cumin	d) Cardamom
45.	_____ is/are herbaceous biennial spice crop			
	a) Garlic	b) Coriander	c) Fenugreek	d) Fennel
46.	_____ is/are secondary spice crops			
	a) Cinnamom	b) Cardomom	c) Chilli	d) Termaric

NA

NA

NA

NA

NA

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62. Choose incorrect grade in following crops.

- a. Brussel sprouts- Blowers
- b. Apple - Janata
- c. Cinnamon- Quills
- d. Vanilla- Dust

63. Precooling method used for Leafy vegetables is .....

- a. Hydrocooling
- b. Forced Air cooling
- c. Vacuum cooling
- d. Air cooling

64. Choose incorrect match .....

- a. ICARDA-Aleppo, Syria
- b. IIMR -Luchiana
- c. DFR-Pune
- d. NBAIR-Bangalore

65. Chemical ingredient present in Grape guard is

- a. Potassium meta bisulphite
- b. Anhydrous sodium bisulphite
- c. Anhydrous ammonium bisulphite
- d. Anhydrous Potassium meta bisulphite

66. Tree which is used as Symbol of Bharata Ratna Award is

- a. *Ficus religiosa*
- b. *Ficus bengalensis*
- c. *Lagerstroemia indica*
- d. *Tabebuia rosea*

67. Choose incorrect precursor....

- a. Auxins-Tryptophan
- b. GA<sub>3</sub> - Kaurene
- c. Cytokinin- AMP
- d. ABA - Acetyl CoA

68. 'Dogridge' rootstock of Grape is commercially propagated by.....

- a. Softwood cuttings
- b. Semihardwood cuttings
- c. Hardwood cuttings
- d. Mallee Cuttings

69. Chicken tongue is a disorder of .....

- a. Grape
- b. Apple
- c. Litchi
- d. Baobab

70. Girdling is removal of strip of bark around tree trunk is done in .....

- a. Logual
- b. Durian
- c. Ber
- d. Persimmon

71. Headquarters of ISTA (International Seed Testing Association) is located at.....

- a. USA
- b. Philippines
- c. Switzerland
- d. Belgium

72. Self incompatibility was first reported by Koelreuter in 18<sup>th</sup> century in crop.....

- a. *Salvia vulgaris*
- b. *Crepis foetida*
- c. *Verbascum phoeniceum*
- d. *Parthenium hysterophorum*

73. Application of following fertilizer in excess leads to Fluoride injury in *Gladiolus*.....

- a. MOP
- b. Urea
- c. SSP
- d. SOP

74. Arka Uday is a hybrid of.....

- a. Mango
- b. Banana
- c. Papaya
- d. Fig

75. Annual Fruit crop among the following is....

- a. Star gooseberry
- b. Chinese gooseberry
- c. Indian gooseberry
- d. Cape gooseberry

76. Kiwifruit harvested at TSS of.....

- a. 4.2
- b. 6.2
- c. 8.2
- d. 7.2

77. Choose the incorrect match....

- a. PDSO- Avocado
- b. Heterodichogamy- Pecanul
- c. Doudichogamy - Pistachionut
- d. Protandry- Sourp

78. Which of the fruit crop follows single sigmoid growth curve...

- a. Mango
- b. Apple
- c. Citrus
- d. All of the above

79. Progenitor of cultivated apple is .....

- a. *Malus baccata*
- b. *Malus sylvestris*
- c. *Malus savana*
- d. *Malus sieboldii*

- 75. Which of the following are phosphate solubilizer ?  
 a. Penicillium    b. Apsergilus    c. Azospirillum    **d. Both a and c**
- 76. The book "Horticultural Science" was written by  
 a. W.B. Hays    **b. Jennick**    c. Leibik    d. Dr. Salim Ali
- 77. .... is the man who standardized the dehydration technique of flowers at NBRI  
 a. Dr. R.R. Pal    b. Vishnu Swaroop    c. Chandra Saini    **d. Dr. J.C. Bhutani**
- 78. Day neutral plant  
 a. Gomphrena <sup>patchehen button</sup>    b. Rudbeckia    c. Dahlia    d. Companula
- 79. Scooping is a common practice in  
 a. **Hyacinth**    b. Rose    c. Lilium    d. Begonia
- 80. Which of the following cultivar of Rose appears on postal stamp?  
 a. Suvasini    b. Shringar    **c. Mrinalini**    d. Mohini
- 81. Garlic crop is harvested in  
 a. 80-100 days    b. 100-115 days    **c. 120-160 days**    d. 170-180 days
- 82. Nityashree and Navashree are the cult of  
 a. Cumin    **b. Cinamon**    **c. Cardamom**    d. Fennel
- 83. *Aphelenchoides besseyi* is a  
 a. VAM    b. Root knot nematode    **c. Foliar Nematode**    d. Eelwarm
- 84. In family Cactaceae and Nyctaginaceae coloura are due to  
 a. Flavonoids    **b. Betalins**    c. Carotenoids    d. Anthocynins
- 85. Capsicum var. ' Arka Mohini' , ' Arka Gaurav' and ' Arka Basant' are bred by  
 a. Dr. G. Kallo    b. Dr. J.V. Peter    **c. Dr. D.P. Singh**    d. Dr. K.L. Chadha
- 86. Plant material never touches to the rim of vase in  
 a. Triangular Arrangement    **b. Western Arrangement**    c. Modern style    d. Ikebana
- 87. Maceration is a method of oil extraction from Jasmine flowers also known as  
 a. Oil bath method    **b. Hot fat extraction method**  
**c. Cold fat extraction method**    d. Crushing method
- 88. Sikander Bagh is now referred as  
 a. Indian Botanical Garden    b. Agri Horticulture Society    **c. NBRI**    d. Govt. Botanical Garden
- 89. The diploid chromosome number of coriander is  
 a. 22    b. 33    **c. 24**    d. 34
- 90. Total area under flower crops in India about ..... Million hectors  
 a. 0.25    **b. 2.5**    c. 10    d. 25
- 91. Australia is a largest producer of  
 a. **Dried Ornamentals**    **b. Cut greens**    c. Cut flowers    d. Loose Flowers
- 92. Anthurium is ..... plant  
 a. Short day    **b. Day neutral**    c. Semi short day    **d. Long day**
- 93. Neera is a product from palmeerah palm contains..... % sugar  
 a. **12.16**    b. 10    c. 20    d. 18
- 94. Variety of poppy which is opium free  
 a. Trishna    **b. Sujatha**    c. Swetha    d. Kirtiman
- 95. *Aristolochia elegans* is an ornamental  
 a. Tree    **b. Climber**    c. Annual    d. Shrub
- 96. Tapping technology in rubber is .....  
 a. **Ridley**    b. Ariparia    c. Vallupania    d. Kaivelty
- 97. Solid mixture of reducing and non reducing sugar prepared by concentration is  
 a. Jaggery    b. Cidar    c. Nectar    **d. Syrup**
- 98. Double trisomy is  
 a. 2n-1-1    b. 2n+2    **c. 2n+1+1**    d. 2n+1
- 99. Fermentation imparts in..... tea  
 a. **Colour**    b. Aroma    c. Stimulant    d. None

126. Best intercrop for Ber is  
 a. Alanometer    b. Porometer    **c. Auxanometer**    d. Barometer

127. Chicken Tounge is the Disorder of .....fruit crop  
 a. Tomato    b. Wheat    **c. Groundnut**    d. Maize

128. Epicotyl grafting of Mango is commercialized in  
 a. Sapota    **b. Litchi**    c. Mango    d. Grapes

129. Best quality guava are produced in .....Bahar  
 a. Karnataka    **b. Maharashtra**    c. Uttar Pradesh    d. West Bengal

130. Lowest inbreeding depression is seen in  
 a. Mrig    b. Ambe    c. Hasta    d. All

131. Major problem in Coconut is  
 a. Solanaceous vegs    **b. Cucurbits**    c. Crucifers    d. Chenapodiales

132. Dehydration temperature for grape is  
 a. Root Wilt    **b. Mites**    c. Rhinoceros    d. Weevils

133. The soils which are popularly referred to be "Thirsty but not hungry"  
 a. 45-55 °C    **b. 67-71 °C**    c. 88-90 °C    d. 100-116 °C

134. Pomegranate (*Punica granatum*) has been placed recently under the family  
 a. Temperate zone soils    b. Coastal soils    **c. Arid zone soils**    ~~d. Black cotton soils~~

135. First planned city in India was  
 a. Punicaceae    **b. Lythraceae**    c. Myrtaceae    d. Proteaceae

136. Total number of Agri-Export Zones (AEZs) present in India are  
 a. Hyderabad    b. Ahmadabad    c. Mumbai    **d. Chandigarh**

137. In cushioning material of fruit packaging which of the following is used  
 a. 30    **b. 60**    c. 90    d. 120

138. Botanical name of Mexican Marigold is  
 a. Boric acid    b. Ethylene    c. ABA    **d. Potassium permanganate**

139. Bud forecasting technique is used in the fruit crop  
 a. *Tegetus petula*    b. *Tegetus erecta*    ~~c. *T. minuta*~~    d. *T. tenuifolia*

140. Coreless carrot variety released from IARI  
 a. Mango    **b. Papaya**    c. Banana    **d. Grape**

141. "Gulmhendi" is common name of  
 a. Pusa Rudhira    b. Pusa Srijan    c. Pusa Ashita    d. Pusa Arpita

142. The higher export earning vegetable is  
 a. Goldenrod    b. Henna    **c. Balsam**    d. Guggul

143. Denavelling is practiced in  
 a. Capsicum    b. Tomato    **c. Onion**    d. Gherkins

144. Genetic male sterility in common in  
 a. Mango    b. Papaya    **c. Banana**    d. Grape

145. Breaking virus is 1<sup>st</sup> reported in  
 a. Rose    **b. Marigold**    c. Dahlia    d. Gladiolus

146. TPS seed rate for planting 1 ha....  
 a. Rose    b. Carnation    **c. Tulip**    d. Chrysanthemum

147. Richest Source of Vitamin B<sub>6</sub>  
 a. 20-25 g    **b. 40-45 g**    c. 70-75 g    d. 100-150 g

148. The base temperature of peas for calculating heat units is  
 a. Almond    b. Guava    **c. Blue Berries**    **d. Walnut**

149. Red rust of tea is caused by  
 a. 4.4 °C    b. 8.4 °C    c. 8.6 °C    d. 12.4 °C

150. Grape variety suitable for Resin making  
 a. Cephaleuros    b. Cystopus    c. Sclerospora    d. Synchytrium

151. Grape variety suitable for Resin making  
 a. Arka Shweta    b. Arka Krishna    c. A. Nilamani    d. Arka Shyam

	a) Hermaphrodite	b) Bisexual	c) Between two Monoecious	d) All of these
94.	Pollinating agent in Banana and Pineapple is			
	a) Wind	b) Insects	c) Animals	d) Birds
95.	Anemophily mode of pollination present in fruit crops			
	a) Jack fruit	b) Papaya	c) Pomegranate	d) All of these
96.	pollinated crops possess coloured, showy, scented and nectar bearing flowers			
	a) Wind	b) Insect	c) Water	d) Bat
97.	is pollen viability test			
	a) TTC test	b) Acetocarmine test	c) Colchicine test	d) TTB test
98.	In sapota, pomegranate, litchi, almond attributed to poor fruit setting			
	a) Self unfruitfulness	b) heterostyly	c) Protogyny	d) All of these
99.	After petroleum, is the second largest commodity in the world trade			
	a) Tea	b) Cashew nut	c) Coffee	d) Rubber
100.	The tree fails to set fruits when pollinated by its own pollen or by the pollen of another tree of the same variety is called			
	a) male sterility	b) Self fruitful	c) Self unfruitful	d) none of these
101.	Protogynous Diurnally Synchronous Dichogamy (PDSD) has been reported in			
	a) Apricot	b) Walnut	c) Chestnut	d) Avocado
102.	flowers behave like functional female during one part of the day and as functional male during another part of the day			
	a) PDSD	b) Duodichogamy	c) Homogamous	d) Heterogamous
103.	Duodichogamy is a sexual mechanism in plants which contravenes self-pollination leads to unfruitfulness was first discovered in			
	a) Castanea	b) Custard apple	c) Cherry	d) Avocado
104.	Unfruitfulness due to sterility is common in			
	a) vinifera varieties of grapes	b) J.H.Hale & Shanghai varieties of peach	c) Washington Navel Orange & Tahiti lime	d) All the above
105.	Blackman is a hybrid between which is completely sterile			
	a) Peach & Cherry	b) Peach & Plum	c) Pear & Quince	d) Sweet & sour cherry
106.	All commercial cultivars of mango in north-India shows			
	a) Male sterility	b) Self-pollination	c) Self-incompatibility	d) Heterostyly
107.	is very sensitive to irrigation during flowering leads to unfruitfulness			
	a) Citrus	b) Banana	c) Ber	d) Pomegranate
108.	Alluvial soils are poor in organic matter but rich in			
	a) Potassium	b) Phosphorous	c) Iron	d) None of these
109.	soils rich in aluminium and iron oxides			
	a) Black soils	b) Red soils	c) Laterite soils	d) Marshy
110.	The colour, TSS and sugar-acid blend are better in oranges grown under			
	a) Dry atmosphere with low humidity	b) Dry atmosphere with high humidity	c) Wet atmosphere with humidity	d) None of these
111.	High humidity during march cause powdery mildew disease in			
	a) Grape	b) Mango	c) Guava	d) Citrus
112.	Foster is a variety of			
	a) Grape	b) Litchi	c) Grape fruit	d) Loquat
113.	Papaya cultivar suitable for papain extraction is			
	a) CO-2	b) CO-4	c) CO-6	d) Surya
114.	Kew is a variety of			
	a) Pomegranate	b) Pineapple	c) Mandrain	d) Peach
115.	is a round fruit Brinjal cultivar			
	a) Pant Rituraj	b) Aruna	c) Pant Samrat	d) Arka Navneet
116.	Pride of India is a cultivar of			

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	a) Suprafoliar	b) Intrafoliar	c) Interfoliar	d) Basifoliar
70.	A monochasium in which branches develop on alternating sides of each sequential axis is			
	a) Helicoid cyme	b) Scorpioid cyme	c) Drepanium	d) Rhipidium
71.	Among the following is/are indeterminate inflorescence			
	a) Fascicle	b) Glomerule	c) Corymb	d) All of these
72.	is a inflorescence bearing numerous flowers on the inside of a compound receptacle			
	a) Cyathium	b) Hypanthodium	c) Spadix	d) Pseudanthium
73.	is a inflorescence bearing sessile or subsessile flowers having very short inflorescence			
	a) Glomerule	b) Verticillasters	c) Fascicle	d) Umbel
74.	Spike with a thick central axis and flowers are congested usually subtended by a spathe is			
	a) Catkin	b) Head	c) Spadix	d) Spikelet
75.	is a fruit develops from a single flower possessing one or more syncarpous carpel			
	a) Multiple fruit	b) Simple fruit	c) Aggregate fruit	d) None of these
76.	is a false fruit developed from fleshy and edible thalamus			
	a) Pome	b) Berry	c) Pepo	d) Hesperidium
77.	is fruit type where epicarp is leathery and is covered by sepals and seeds are covered with juicy layer of pulp			
	a) Balausta	b) Hesperidium	c) Pepo	d) Berry
78.	is a type of fruit which develops collectively from entire flowers of the whole inflorescence			
	a) Aggregate fruit	b) Simple fruit	c) Composite fruit	d) All of these
79.	Fruit developed from a hallow, fleshy and elongated receptacle which encloses numerous male and female flowers			
	a) Bur	b) Sorosis	c) Syconus	d) Hesperidium
80.	Thalamus is a edible part of			
	a) Apple	b) Pear	c) Quince	d) All of these
81.	Edible part of Litchi is			
	a) Aril	b) Juicy placental hairs	c) Endocarp	d) Mesocarp
82.	Fruit type of custard apple is			
	a) Balausta	b) Sorosis	c) Etaerio	d) Pome
83.	is outgrowth of the funiculus, raphe or integuments			
	a) Aril	b) Thalamus	c) Testa	d) Hilum
84.	is a monocot divide of endosperm			
	a) Sorghum	b) Paddy	c) Orchid	d) Caster
85.	is edible part in walnut			
	a) Pericarp	b) Seed	c) Endocarp	d) Fleshy sepals
86.	is a short stubby shoot of more than one year which bears fruit bud			
	a) Apical meristem	b) Spur	c) Corymb	d) Fascicle
87.	is a terminal flowering fruit crop			
	a) Mango	b) Papaya	c) Guava	d) Ber
88.	bears fruit on current season growth			
	a) Apple	b) Pear	c) Plum	d) Karonda
89.	is having axillary bearing habit which bears fruits on old shoot			
	a) Pear	b) Peach	c) plum	d) All of these
90.	is a scaly cylindrical floral spike which bears many unisexual epipetalous flowers			
	a) Receme	b) Corymb	c) Fascicles	d) Catkin
91.	Flower type present in mango			
	a) Staminate	b) Pistillate	c) Hermophrodite	d) Both a & c
92.	Both staminate and pistillate flowers are found in			
	a) Grape	b) date palm	c) Papaya	d) All
93.	Autogamy occurs in _____ flower			

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80. Peas and Beans are rich in.....

- a. Vit-E
- b. Vit-A
- c. Vit-B
- d. Vit-C

81. Major mineral elements obtained from vegetables are

- a. Ca, Fe & K
- b. Ca, Fe & P
- c. Ca, Mg & Zn
- d. Ca, Fe & Zn

82. Citrus fruit which is rich in Mallic acid is.....

- a. Sweet orange
- c. Sweet lime
- b. Sour orange
- d. Pummelo

83. First scab resistant variety of apple in world is

- a. Prescilla
- b. Freedom
- c. Surprise
- d. Prima

84. Caprification phenomena is not required for fruit set in following fig .....

- a. Smyrna fig
- b. Capri fig
- c. Adriatic fig
- d. Sanpedro fig

85. Anticancerous property in *Alliums* is due to

- a. Allicin
- b. allin
- c. Quercitin
- d. Carotene

86. Growth regulator used in Tomato to increase fruit set under adverse climate is.....

- a. CCC
- b. 2,4-D
- c. NAA
- d. PCCA

87. Highest fruit set in Brinjal is observed in..... flowers.

- a. Medium styled
- b. Long styled
- c. Short styled
- d. both a & c

88. The fruiting branches in blackpepper are called as.....

- a. Orthotropes
- b. Geotropes
- c. Plagiotropes
- d. Runners

89. Large cardamom is commercially propagated through.....

- a. Seeds
- b. Suckers
- c. Offshoots
- d. Rhizome bits

90. Sex form of Nutmeg is.....

- a. Monoecious
- b. hermaphrodite
- c. Dioecious
- d. Gynodioecious

91. Bicolored variety of Brinjal is.....

- a. Manjarigota
- b. Vaishali
- c. Pragati
- d. Both a and b

92. Unitless measure of dispersion is .....

- a. Standard deviation
- b. Range
- c. Mean deviation
- d. Coefficient of variation

93. Extreme pungent species of Capsicum is.....

- a. *Capsicum buccatum*
- b. *Capsicum pubescens*
- c. *Capsicum annum*
- d. *Capsicum frutescens*

94. Fruit of Brassica species are botanically called as...

- a. Berry
- b. Drupe
- c. Siliqua
- d. Glomerule

95. Hollow stem in cauliflower is due to deficiency of.....

- a. Calcium
- b. Magnesium
- c. Boron
- d. Molybdenum

96. Black leg and Club root diseases of crucifers are more prevalent in soil..

- a. Saline and alkaline
- b. Saline and acidic
- c. Neutral and Saline
- d. Acidic and saline

97. Asperagus belongs to family....

- a. Alliaceae
- b. Liliaceae
- c. Umbelliferae
- d. None

98. Edible part of *All spice* is .....

- a. Dried matured fruits
- b. Dried immature fruits
- c. Dried ripened fruits
- d. All

99. Ajmalicine from Periwinkle is extracted from.....

- a. Leaves
- b. roots
- c. flowers
- d. all

100. Inflorescence of Brussels sprout is.....

- a. Cymose
- b. Umbel
- c. Racemose
- d. Spike

12. Citronella is propagated through  
 a. seeds                      b. suckers                      c. slips                      d. Crowns
13. A shade tolerant aromatic crop which could be grown as intercrop in Arecanut/ Coconut plantation  
 a. Basil                      b. Davana                      c. Patchouli                      d. Jasmine
14. Directorate of Medicinal and Aromatic Plants is located at  
 a. Ajmir, Rajasthan                      b. Lucknow, UP                      c. Anand, Gujarath                      d. Kasargod, Kerala
15. The optimum seed yield per hactare in ambrette is .....
- a. 900-1000 kg                      b. 700-800 kg                      c. 500-600 kg                      d. 1500 kg
16. The place origin of sacred basil is.....
- a. Mediterranean region                      b. South Africa                      c. Europe                      d. India
17. Shivalik is important cultiver of  
 a. Mint                      b. Patchouli                      c. Dill                      D. Sweet marjoram
18. Vetiver is used as .  
 a. Soil binder                      b. Fodder                      C. Perfumery industry                      d. All
19. Abelmoschus moschatus is also called.....
- a. Basil                      b. Lemon scented gum                      c. Damask rose                      d. Musk plant
20. Lemon scented gum is used as substitute to.....
- a. Lemongrass                      b. Palmarosa                      c. Citronella                      d. Vetiver

**II. State whether the following statements are True or False**

**0.5\*8=4**

1. .... Spear mint can be grown in tropical climate.
2. .... Peppermint is not used as a source of menthol.
3. .... Flower head at the time of harvest constitute 75% of tatal plant weight in davana.
4. .... Celeary is an annual / biennial crop.
5. .... Java citronella is propagated only through vegetative means because seeds are viable only for few days.
6. .... Flowering enhances oil content in Lemongrass.
7. .... Menthol and eugenol are major constituent present in bergamot mint.
8. .... Ambrette seeds are used in the extraction of essential oil.

**III. Match the following**

**0.2\*20=4**

- |                      |                   |                   |
|----------------------|-------------------|-------------------|
| 1. .... Palmarosa    | a. CIMAP sammohak | ..... Citronellol |
| 2. .... Geranium     | b. CIM Jeeva      | ..... 149 days    |
| 3. .... Peppermint   | c. Hercules       | ..... Linalool    |
| 4. .... Chamommile   | d. CIM Pawan      | ..... 4 months    |
| 5. .... Spearmint    | e. Arka surabhi   | ..... Carvone     |
| 6. .... Citonella    | f. CIMAP Harsha   | ..... 17 kg oil   |
| 7. .... French basil | g. CIM suwarna    | ..... Geraniol    |



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24. C4 plant among the following is.....  
 a. Potato  
 b. Amaranthus  
 c. Spinach  
 d. Onion
25. Edible part of Knol Khol is.....  
 a. Leafy stalks                      c. Head  
 b. Knobs                                d. Tuber
26. How many Agri-ecological zones are covered flower crops.....  
 a. 2                                      c. 6  
 b. 4                                      d. 8
27. *Prunus behmi* is popular rootstock is a natural hybrid between.....  
 a. Pear x almond                      c. Pear x Plum  
 b. almond x Peach                      d. Pear x Peach
28. Present total postharvest loss of Horticulture crops is ranges between .....  
 a. 10-20                                c. 40-60  
 b. 20-40                                d. 60-80
29. Highly shade tolerant fruit crop is....  
 a. Bael                                  c. Ber  
 b. Mangosteen                      d. Carambola
30. Edible Banana's are.....  
 a. Vegetatively apomictic  
 b. Vegetatively parthenocarpic  
 c. Vegetatively parthenogenetic  
 d. None
31. Stable Sex form in case of Papaya is.....  
 a. Staminate                          c. Pistillate  
 b. Hermaphrodite                      d. None
32. Recently matured leaf with maximum physiological activity in pineapple is.....  
 a. A-leaf                                c. C-leaf  
 b. B-leaf                                d. D-leaf
33. Rootstock which can be used for Sapota is  
 a. *Manilkara hexandra* (Khimi)  
 b. *Chrysophyllum cainilo* (star apple)  
 c. *Madhuca latifolia*  
 d. All of these
34. Avocado belongs to family.....  
 a. Sapotaceae                      c. Lauraceae  
 b. Sterculiaceae                      d. Oxalidaceae
35. Gibberellic acid is not effective in.....  
 a. Overcoming dormancy  
 b. Inducing early flowering  
 c. Increasing fruit set  
 d. Increasing rooting in cuttings
36. Pre-harvest fruit drop in Citrus can be controlled by Spray of .....  
 a. Cycocel-100ppm                      c. 2,4-D 20ppm  
 b. NAA-50ppm                          d. 2,4,5-T 100ppm
37. In Prophase, Pairing of homologous chromosomes occurs during...  
 a. Zygotene                              c. Pachytene  
 b. Diplotene                              d. Diakinesis
38. Composition of Bordeaux Mixture is.....  
 a.  $\text{CuSO}_4 + \text{Ca}(\text{OH})_2 + \text{H}_2\text{O}$   
 b.  $\text{CuSO}_4 + \text{Na}_2\text{CO}_3 + \text{H}_2\text{O}$   
 c.  $\text{CuCO}_3 + \text{PbO} + \text{Linseed oil}$   
 d.  $\text{CuSO}_4 + \text{Na}(\text{OH})_2 + \text{H}_2\text{O}$
39. Grape hybrid developed by Dr. H P Olmo at University of California, USA is..  
 a. Dogridge                              c. Thompson seedless  
 b. Beauty seedless                      d. Perlette, *deli HC*
40. Rich source of Tocopherol (Vit-E) is.....  
 a. Onion                                c. Sweet Corn  
 b. Sweet potato                          d. Cassava
41. Nishkant is a rootstock of Rose from IHR belongs to spp .....  
 a. *Rosa chinensis*                      c. *Rosa canina*  
 b. *Rosa multiflora*                      d. *Rosa rugosa*
42. Triage (Broken bits) is a grade of....  
 a. Tea                                    c. Coffee  
 b. Arecanut                              d. Cocoa

141.	Filler planting is done in _____ system				
	a) Hexagonal	b) Quincunx	c) Rectangular	d) Square	
142.	HDP is achieved by				
	a) Using dwarf root stock	c) Regulating shape of plant			
	b) Resorting to dwarf scion variety	d) All of these			
143.	_____ is a system of planting at ultra-low spacing				
	a) HDP	b) Meadow orcharding	c) Quincunx	d) Contour system	
144.	Meadow orcharding originated from				
	a) England	b) Israel	c) India	d) China	
145.	Total number of plants required for planting in 1 ha area with 10x10 m spacing under Quincunx system is				
	a) 101	b) 151	c) 181	d) 201	
146.	Spacing followed in HDP mango				
	a) 1x1 m	b) 2.5x2.5 m	c) 5x5 m	d) 8x8 m	
147.	_____ is a Tall (LCOT) X Tall (CCNT) coconut hybrid recently released by AICRP-Palms centre, Veppakulam (TNAU, Tamil Nadu), first of its kind in the country as well as in the south Asia				
	a) VPM-1	b) VPM-2	c) VPM-4	d) VPM-5	
148.	_____ is a fresh, hygienic and unfermented energy drink from coconut inflorescence				
	a) Neera	b) Kalparasa	c) Fenny	d) None of these	
149.	Chromosome number (2n) of mango is				
	a) 30	b) 40	c) 46	d) 34	
150.	Suitable dwarfing scion cultivar of papaya for HDP is				
	a) Pusa Nanha	b) Coorg honey	c) Pusa majesty	d) Pusa delicious	
<b>Match the Following</b>					
151.			152.		
1	Bulb	<i>Fragaria spp</i>	1	Cremocarp	Pomegranate
2	Corm	<i>Allium spp</i>	2	Berry	Pear
3	Rhizome	<i>Curcuma longa</i>	3	Pome	Guava
4	Tuber	<i>Iris spp</i>	4	Balausta	Citrus
5	Stolan	<i>Solanum tuberosum</i>	5	Hesperidium	Carrot
153.			154.		
1	Aggregate fruit of achenes	Raspberry	1	Apricot	Endocarp
2	Aggregate fruit of drupes	Papaya	2	Cashewnut	Mesocarp
3	Aggregate fruit of follicles	Strawberry	3	Coconut	Bracts, perianth & seed
4	Aggregate fruit of berries	<i>Manolia grandiflora</i>	4	Banana	Peduncle, cotyledon & seed
5	Berry	Annona	5	Jackfruit	Mesocarp & endocarp
155.			156.		
1	Receme	Cherry	1	Entamophily	Birds
2	Catkin	Grape	2	Ornithophily	Animals
3	Corymb	Mulberry	3	Zoophily	Insects
4	Fascicles	Raspberry	4	Anemophily	Water
5	Panicles	Pear	5	Hydrophily	Wind
157.			158.		
1	Cleistogamy	<i>Annona muricata</i>	1	Komdesa	Sweet and Sour cherry
2	Homogamy	<i>Annona reticulata</i>	2	Duke cherry	Peach and Sour cherry
3	Protoandry	Citrus	3	Pyronia	<i>Poncirus trifoliata</i> X Sweet orange
4	Protogyny	Pansy	4	Royal	Pear and Quince
5	Herkogamy	Grape	5	Citrance	Persian walnut and California walnut

	a) Cabbage	b) Cauliflower	c) Capsicum	d) Carrot
117.	is a Asiatic type carrot cultivar			
	a) Early Nontes	b) Pusa yamdagni	c) Chantenay	d) Pusa keshar
118.	is a cassava cultivar with high starch content			
	a) Sree harsha	b) Sree Aporva	c) Sree Athulya	d) Sree Sahaya
119.	is IARI developed european type cultivar of carrot			
	a) Pusa Yamdagni	b) Pusa Asita	c) Pusa Vristi	d) Pusa Rudhira
120.	Pusa lalima is a cross between			
	a) Amrapali x Sensation		c) Amrapali x Lalsundari	
	b) Dushehari x Sensation		d) Amrapali x Janardan Pasand	
121.	California Wonder is a variety of			
	a) Cauliflower	b) Cabbage	c) Bell pepper	d) Brinjal
122.	is a chilli variety resistant to bacterial wilt			
	a) Utkal Ava	b) Plant C 1	c) Punjab Surka	d) Punjab Lal
123.	Rust & Bacterial blight resistant variety of French bean			
	a) Arka Komal	b) Pant Anupama	c) Arka Anoop	d) Contender
124.	is a white type cultivar of onion			
	a) Udaipur-102	b) Udaipur-101	c) Pusa madhavi	d) Arka Bindu
125.	is a european type radish cultivar released by IARI			
	a) Pusa Chetki	b) Pusa Desi	c) Pusa Reshmi	d) Pusa Himani
126.	is a cultivar of sweet potato having orange colour flesh			
	a) Gowri	b) Varsha	c) Sree Kanaka	d) Sankar
127.	Leaf Curl Virus (LCV), Bacterial wilt and Early blight resistant variety of tomato			
	a) Arka Samrat	b) Arka Ananya	c) Arka Rakshak	d) Both a & c
128.	Sowball is a cultivar of			
	a) Taro	b) Turnip	c) Tinda	d) Knol-Khol
129.	is a double flowered cultivar of Tuberose			
	a) Rajat-rekha	b) Swarna-rekha	c) Suvasini	d) Prajwal
130.	Cherry Blossom is a cultivar of			
	a) Bougainvillea	b) Carnation	c) China-Aster	d) Gladiolus
131.	Mudigere-1 is a cultivar of			
	a) Cashewnut	b) Black pepper	c) Coconut	d) Cardamom
132.	is a fungicide used for fumigating the soil			
	a) Bavistin	b) Formaldehyde	c) Vitavax	d) Captan
133.	Damping up of seedling is caused by			
	a) Nematodes	b) Viruses	c) Bacteria	d) Fungi
134.	Transferring of young seedlings into another bed, pan or tray is termed as			
	a) Pricking	b) Propping	c) Nipping	d) Wrapping
135.	thickness polybags are used for raising seedlings in fruit nurseries			
	a) 100 $\mu$	b) 250 $\mu$	c) 500 $\mu$	d) 700 $\mu$
136.	supplies vegetables continuously throughout the year			
	a) Market garden	b) Kitchen garden	c) Forcing garden	d) Truck garden
137.	The truck garden for onion and garlic are situated in			
	a) Bangalore	b) Pune	c) Nasik	d) Mumbai
138.	Growing of vegetables out of their normal growing season is termed as			
	a) Truck gardening		c) Processing gardening	
	b) Forcing gardening		d) Market gardening	
139.	Pea variety suitable for canning			
	a) Arkel	b) Early Badger	c) Little marvel	d) Arka Ajit
140.	system accommodates 15% more plants than square system			
	a) Rectangular	b) Quincunx	c) Hexagonal	d) Contour

6

	a) Suprafoliar	b) Intrafoliar	c) Interfoliar	d) Basifoliar
70.	A monochasium in which branches develop on alternating sides of each sequential axis is			
	a) Helicoid cyme	b) Scorpioid cyme	c) Drepanium	d) Rhipidium
71.	Among the following is/are indeterminate inflorescence			
	a) Fascicle	b) Glomerule	c) Corymb	d) All of these
72.	is a inflorescence bearing numerous flowers on the inside of a compound receptacle			
	a) Cyathium	b) Hypanthodium	c) Spadix	d) Pseudanthium
73.	is a inflorescence bearing sessile or subsessile flowers having very short inflorescence			
	a) Glomerule	b) Verticillasters	c) Fascicle	d) Umbel
74.	Spike with a thick central axis and flowers are congested usually subtended by a spathe is			
	a) Catkin	b) Head	c) Spadix	d) Spikelet
75.	is a fruit develops from a single flower possessing one or more syncarpous carpel			
	a) Multiple fruit	b) Simple fruit	c) Aggregate fruit	d) None of these
76.	is a false fruit developed from fleshy and edible thalamus			
	a) Pome	b) Berry	c) Pepo	d) Hesperidium
77.	is fruit type where epicarp is leathery and is covered by sepals and seeds are covered with juicy layer of pulp			
	a) Balausta	b) Hesperidium	c) Pepo	d) Berry
78.	is a type of fruit which develops collectively from entire flowers of the whole inflorescence			
	a) Aggregate fruit	b) Simple fruit	c) Composite fruit	d) All of these
79.	Fruit developed from a hallow, fleshy and elongated receptacle which encloses numerous male and female flowers			
	a) Bur	b) Sorosis	c) Syconus	d) Hesperidium
80.	Thalamus is a edible part of			
	a) Apple	b) Pear	c) Quince	d) All of these
81.	Edible part of Litchi is			
	a) Aril	b) Juicy placental hairs	c) Endocarp	d) Mesocarp
82.	Fruit type of custard apple is			
	a) Balausta	b) Sorosis	c) Etaerio	d) Pome
83.	is outgrowth of the funiculus, raphe or integuments			
	a) Aril	b) Thalamus	c) Testa	d) Hilum
84.	is a monocot divide of endosperm			
	a) Sorghum	b) Paddy	c) Orchid	d) Caster
85.	is edible part in walnut			
	a) Pericarp	b) Seed	c) Endocarp	d) Fleshy sepals
86.	is a short stubby shoot of more than one year which bears fruit bud			
	a) Apical meristem	b) Spur	c) Corymb	d) Fascicle
87.	is a terminal flowering fruit crop			
	a) Mango	b) Papaya	c) Guava	d) Ber
88.	bears fruit on current season growth			
	a) Apple	b) Pear	c) Plum	d) Karonda
89.	is having axillary bearing habit which bears fruits on old shoot			
	a) Pear	b) Peach	c) plum	d) All of these
90.	is a scaly cylindrical floral spike which bears many unisexual epipetalous flowers			
	a) Receme	b) Corymb	c) Fascicles	d) Catkin
91.	Flower type present in mango			
	a) Staminate	b) Pistillate	c) Hermophrodite	d) Both a & c
92.	Both staminate and pistillate flowers are found in			
	a) Grape	b) date palm	c) Papaya	d) All
93.	Autogamy occurs in flower			

159			160		
1	Ber, Date, Aonla, Phalsa	Alluvial soils	1	Mulberry	Tiliaceae
2	Banana, Citrus, Sapota	Red soils	2	Date	Rhamnaceae
3	Coconut, Arecanut, Black pepper	Arid soils	3	Grape	Areaceae
4	Tea, Coffee, Rubber, Cashewnut	Black soils	4	Phalsa	Moraceae
5	Guava, Jackfruit, Jamun	Laterite soils	5	Ber	Vitaceae

"Hard work beats talent when talent fails to work Hard"

MOCK TEST 2016 : HORTICULTURE

MATCH THE FOLLOWING

1.

1	Frenching in Citrus	a	Convective heat <sup>4</sup>
2	Bitter pit of Apple	b	Excess N & K <sup>5</sup>
3	Fruit necrosis in Aonla	c	B <sup>3</sup>
4	Spongy tissue	d	Ca <sup>2</sup>
5	Calyx cavity in Persimmon	e	Zn <sup>1</sup>

2.

1	Glycolysis	a	Plastids <sup>4</sup>
2	Kreb cycle	b	Cytoplasm <sup>5</sup>
3	Protein synthesis	c	Mitochondria <sup>1</sup>
4	Photosynthesis	d	Ribosome <sup>2</sup>
5	DNA	e	Nucleus <sup>3</sup>

3.

1	Leaf hopper	a	Cucurbits <sup>3</sup>
2	DBM	b	Sweet Potato <sup>4</sup>
3	Red pumpkin beetle	c	Cabbage <sup>2</sup>
4	Weevil	d	Onion <sup>5</sup>
5	Stem & bulb nematode	e	Okra <sup>1</sup>

4.

1	Little Leaf	a	Chilli <sup>2</sup>
2	Anthracoze	b	Brinjal <sup>1</sup>
3	White rust	c	Peas & Beans <sup>4</sup>
4	Ascochyta blight	d	Onion <sup>5</sup>
5	Yellow dwarf	e	Crucifers <sup>3</sup>

5.

1	Goodness of fit	a	t-test <sup>3</sup>
2	Sample size >30	b	Normal distribution <sup>4</sup>
3	Sample size <30	c	Coefficient of Variation <sup>5</sup>
4	Mean=median=mode	d	Chi square <sup>1</sup>
5	Percentage	e	Z-test <sup>2</sup>

6.

1	Breeder seeds	a	Opal green <sup>4</sup>
2	Foundation seeds	b	Purple <sup>3</sup>
3	Registered seeds	c	Azure blue <sup>5</sup>
4	Certified seeds	d	white <sup>2</sup>
5	Truthfully labeled seeds	e	Golden yellow <sup>1</sup>

7.

1	Datepalm	a	Root cuttings <sup>2</sup>
2	Horse radish	b	Corm <sup>4</sup>
3	Orchids	c	offshoots <sup>1</sup>
4	Gladiolus	d	Sword suckers <sup>5</sup>
5	Banana	e	Tissue culture <sup>3</sup>

8.

1	CIMMYT	a	Banana <sup>5</sup>
2	CISH	b	Ashwaganda <sup>4</sup>
3	MARDI	c	Wheat <sup>1</sup>
4	CIMAP	d	Pineapple <sup>3</sup>
5	INIBAP	e	Mango <sup>2</sup>

9.

1	Flouride injury	a	Gerbera <sup>4</sup>
2	Calyx splitting	b	Rosa <sup>3</sup>
3	Bent neck	c	Gladiolus <sup>1</sup>
4	Postharvest stem break	d	Chrysanthemum <sup>5</sup>
5	Crown bud	e	Carnation <sup>2</sup>

10.

1	Vit-C	a	Sweet corn <sup>4</sup>
2	Thiamine	b	Carrot <sup>5</sup>
3	Riboflavin	c	Cashewnut <sup>2</sup>
4	Vit-E	d	Aonla <sup>1</sup>
5	Vit-A	e	Bael <sup>3</sup>

- 39 100. Functional Male Sterility is controlled by ..... gene  
 a. Dominant  b. Recessive c. Cytoplasm d. Jumping
101. Hemanti, Bipali, Kanti are the varieties of  
 a. Geranium b. Citronella c. Mint d. Coleus
102. King of Bitters belongs to family  
 a. Lamiaceae b. Apocynaceae c. Acanthaceae d. Araceae
103. Cuttings from.....used for bush pepper  
 a. Main stems b. Geotropics c. Orthotropics d. Plagiotropics
104. Semi aquatic perennial herb  
 a. Davana b. Agave c. Ipecac  d. Sweet flag
105. Pyrethrum belongs to the family  
 a. Compositae b. Rosaceae c. Sapindaceae d. Lilliaceae
106. Screw Pine is the common name of which aromatic plant  
 a. Lemon grass b. Citronella c. Basil  d. Kewada
107. Indian Institute of Spice Research is located at  
 a. Delhi b. Mumbai c. Kolkata d. Calicut
108. Seed rate of turmeric -mother rhizomes (kg/ ha)  
 a. 1000-1500 b. 1500-2000 c. 2000-2500 d. 2500-3000
109. Shell is absent in  
 a. Dura b. Pisifera c. Tenera d. none
110. Sim's park is located at  
 a. Ooty b. Madhurai c. Chennai  d. Coonoor
111. pH indicator plant  
 a. Hydrangea b. Chorisia c. Magnolia d. Celosia
112. Thornless rose rootstock was developed at  
 a. IARI b. NBRI c. IIHR d. GBPAU
113. Cultivar of Gladiolus resistant to fusarium wilt  
 a. Sagar b. Sapna c. Apsara d. Dhiraj
114. Gulkhund is prepared by mixing rose petals n sugar in the ratio of  
 a. 1:1 b. 1:2 c. 1:3 d. 1:4
115. Suitable desiccant for flower drying  
 a. Silica gel b. Boric acid c. Sand d. All
116. Botanical name of Baby's Breath flower is  
 a. *Gypsophila paniculata* b. *Begonia rex* c. *Gazania regens* d. *Aster amellus*
117. Which of the following is not the basic line of ikebana  
 a. Filler b. Man c. Earth d. Heaven
118. In addition to flowers, fruits and vegetables are also used in .....floral arrangement  
 a. Moribana b. Nagaire c. Jiyubana d. Morimono
119. Cane cutting is very common in  
 a. Difenbachia b. Aracaria c. Coleus d. Philodendron
120. The cultivar which is cross between Swiss Chard x Local Palak is  
 a. Pusa Palak b. Pusa Harit c. Jobner Green d. Banerjee Giant
121. Best Temperature range for colour development in Carrot is  
 a. 11.1-15.5° C b. 15.5-21.1° C c. 21.1-25.5° C d. 25.5-31.1° C
122. Isolation distance for breeder seed production in cauliflower is  
 a. 800m b. 1000m c. 1200m d. 1600m
123. Maximum share of floriculture commodity in export market is  
 a. Cut Flowers b. Cut Greens c. Dry Flowers d. Plug Plant Industry
124. Rambutan fruits requires a .....conditions  
 a. Tropical b. Subtropical c. Temperate d. Himalayan conditions
125. Leaf area is measured by ...

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