

at LO bt SD crDN dt none

1089 contender is the variety of French bean (bush type)

1097 var of pea - suitable for dehydration Bonneville

~~1098 leafless pea variety constant~~

1117 S.N of field pea P. arvense

1124 S.N of Rat tail radish B. flagelliformis <sup>P.S. a</sup> edible portion long pod

~~pedicel of St. stypoides is called~~

1131 type pod / fruit of cole crops is called as Silique.

1147 fruit of carrot is called as Schizocarpe

1157 S.N of Pigweed Chenopodium album

1167 potato tuber moth introduced to India from Italy

1176 Suede & Turnip are the root cole crops

1188 edible portion of knol-khol stem, knob

1196 Long melon

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226 Black rot resistant var of cabbage & cauliflower patamuni

227 Black leg is most common @ in alkaline soil

228 Whip tail is the common in acidic soil

229 Brownings of cauliflower is most common in alkaline soil

230 Seed treatment of cabbage & cauliflower is done @ temp 52°C

231 CCC&SABH peak increases low temp @ each cabbage

232 Sprouting broccoli 22 time wt is richer than cabbage

233 Swollen axillary buds are the edible part of broccoli bt knob-khol of Brussel sprout & Leek

234 SW of knob-khol is B. gongylodes wt edible portion Knob

235 Orange cauliflower is the rich source of B-carotene [5-10%]

236 Ancestor of cauliflower B. critica

237 Self blanching varieties of cauliflower paradepati paralimoghol, Snowball types

238 Blanching is followed in \_\_\_\_\_ vegetable

of Broccoli bt globe artichoke of Asparagus & none

239 May-June sowing season of early cauliflower

240 350-400g is the seed rate of late cauliflower

241 Removal of central portion observed for initiation of lateral flower stalks called as scoping

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In which one the microbes have Te & Ribosomes?

- (a) prokaryotes (b) mitochondria (c) chloroplast (d) All the above

17. "Universal cell organelle" ?

- (a) Nucleus (b) mitochondria (c) chloroplast (d) Ribosomes

18. Crossing over visible under which stage?

- (a) leptotene (b) zygotene (c) pachytene (d) diplotene

19. A variety resistant to more than one var. of pathogen called.

- (a) horizontal resistance (b) vertical resistance (c) multiple resistance (d) All the above

20. "Ethidium bromide" mutagenic chemical to induce which type of male sterility?

- (a) GMS (b) CMS (c) CGMS (d) chemical male sterility (Inducant)

21. Queen of genetics ?

- (a) Drosophila (b) Rice (c) maize (d) pea

22. Nucleotide means ?

- (a) sugar + nitrogenous base (b) nitrogenous base + phosphoric acid (c) sugar + phosphoric acid (d) sugar + nitrogenous base + phosphoric acid

23. Trisomics means ?

- (a)  $2n-1$  (b)  $2n+1$  (c)  $2n+2$  (d)  $2n-2$

24. Back cross means ?

- (a)  $(A \times B) \times A$  (b)  $(A \times B) \times B$  (c)  $(A \times B) \times C$  (d)  $a \times b$

25. Test cross used for ?

- (a) gene contribution in next generation (b) Linkage (c) Epistasis (d) all the above

26. Highly heritable, monogenic controlled characters are transferred using which breeding programme?

- (a) Pedigree method (b) mass selection (c) back cross method (d) Pundling method

27. TOP cross means ?

- (a)  $opv \times opv$  (b)  $Tobad \times opv$  (c)  $(A \times B) \times opv$  (d)  $(A \times B) \times c$

28. Example for multiple allelism ?

- (a) ABO blood group (b) Fur colour of rabbits (c) Eye colour drosophila (d) All the above

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Shriya

Model test - 1

Prepared by: S. HARI PRASATH  
I<sup>st</sup> M.Sc (P&T)

ICAR - JRF - Genesed agriculture

Marks: 400

Time: 70 min.

Each wrong answers carry -2 marks

- (1) What is the cropping intensity of India?  
(a) 100% (b) 125% (c) 135% (d) 145%
- (2) Gases responsible for acid rain?  
(a) CO<sub>2</sub> & SO<sub>2</sub> (b) SO<sub>2</sub> & NO<sub>2</sub> (c) CO<sub>2</sub> & NO<sub>2</sub> (d) SO<sub>2</sub> & CO<sub>2</sub>
- (3) RBI established in ~~the~~ which year?  
(a) 1935 (b) 1925 (c) 1920 (d) 1919
- (4) First NRE started for which crop?  
(a) Rice (b) Maize (c) groundnut (d) Cotton.
- (5) In which position India stands for Green crop cultivation in area wise? (2014 status)  
(a) 3<sup>rd</sup> (b) 4<sup>th</sup> (c) 5<sup>th</sup> (d) 6<sup>th</sup>
- (6) What is the explanation of IISR?  
(a) Indian Institute of Sugarcane research.  
(b) Indian Institute of Spices research.  
(c) - both a & b.  
(d) b alone.
- (7) ICARDA located at?  
(a) Durgam (b) Columbia (c) Syria (d) Nigeria.
- (8) The Great Bengal famine occurred in which year?  
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- (9) National Food Security Mission (NFSM) started in which year?  
(a) 2004 (b) 2005 (c) 2006 (d) 2007
- (10) In 2000, who got the World food prize for special contribution in India?  
(a) Dr. R. S. Paroda (b) Dr. S. K. Vasthal (c) Dr. G. S. Khush (d) Dr. K. L. Ch

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89. Supplementary gene action ratio ?  
 (a) 15 : 1 (b) ~~9 : 7~~ (c) 9 : 3 : 4 (d) 12 : 3 : 1
90. If the characters are expressed in all the sex but predominant in one sex then called ?  
 (a) Sex-linked characters (b) sex-limited characters (c) sex-influenced characters  
 (d) all the above.
91. who given punctate selection / theory ?  
 (a) Bateson (b) Carl Correns (c) Johansen (d) Jones.
92. who made the man made cereal ?  
 (a) Thomas Shreebald (b) Jones (c) Vavilov (d) Rimpur.
93. National seed corporation started at the year ?  
 (a) 1960 (b) 1963 (c) 1966 (d) 1969.
94. Registered seed tag colour ?  
 (a) golden yellow (b) white (c) purple (d) ~~blue~~ blue.
95. Seed plot technique developed for which group of diseases in potato ?  
 (a) Fungus (b) bacteria (c) nematode (d) virus.
96. Central Laboratory for Agronomy located at ?  
 (a) Agra (b) Nagpur (c) Varanasi (d) Jhansi.
97. who will multiply the foundation seeds ?  
 (a) breeders (b) NRC (c) SSC (d) Farmers.
98. example for Recalcitrant seed ?  
 (a) Rice (b) mango (c) mustard (d) cotton.
99. which one of the among following have highest germination percentage ?  
 (a) Rice (b) maize (c) wheat (d) cotton.
100. Real value of seed calculated by ?  
 (a)  $\frac{\text{Purity} \% \times \text{Germination} \%}{100}$  (b)  $\frac{\text{Purity} \% \times \text{Viability} \%}{100}$   
 (c)  $\frac{\text{Germination} \% \times \text{Viability} \%}{100}$  (d)  $\frac{\text{Purity} \% \times \text{Germination} \% \times \text{Viability} \%}{100}$

First laureate of the World food prize - Dr. Swaminathan 1996

ALL THE BEST

"EVERYTHING IN OUR HAND, IF YOU THINKS LIKEWISE"

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1) Largest producer of onion in the world Netherlands <sup>Siddharood Y.M.</sup>

2) Origin of onion Central Asia

3) Most preferred colour of onion for processing white  
(or blakest powder)

4) Cross pollination in onion is mainly due to protandry  
of protandry bt cause of protogyny as both are

5) Edible portion of onion Bulb

6) Garlic is produced only under \_\_\_\_\_ in India  
at SD bt LD of DM at 10°C  
(Cultivated in India - 14-15°C)  
 $\frac{15}{6}$

7) monoploid chromosome of sweet potato = 15

~~8) NHRDF located at Uttarakhand (Nainital)~~

9) World vegetable centre located at Taiwan

10) Horticulture Society of India established in a year 1942

11) Indian scientist who got world award prize 2011 Sanjay Rajan

12) 6th Horticulture Congress held @ Coimbatore in a year 2011  
1st award padma shree 2011 Dr. Bhanu

Ridgeland - NAA

TIBA-25-5911

Ethrel

245 PGR " " tomato to produce parthenocarpic fruits 2,4-D 5ppm

250 Sex bearing cucumber are used in poly house condition as monoecious by discussion of hermiprodite df none

260 TIP burn in lettuce is due to deficiency of Ba

270 cavity spot in carrot is due to deficiency of calcium def.

280 Tomato leaf curl is transmitted by white fly.

290 PGR used to break dormancy in potato GA3 <sup>10-15ppm</sup> Thiburea Ethylchlozole

300 Solanaceae family is also called as night shade family.

310 Root nodules absent legume crop Rajma/French bean.

320 The fruit mainly used as vegetable ~~Brinjal~~ Bread fruit (Water melon, Tomato, Brinjal)

330 Example for cu vegetable Amaranthus, globe Amaranth, Bayelle.

340 antioxidant compound present in the broccoli Sulphoraphane.

350 Among the vegetable ~~Muskmelon~~ Muskmelon contain highest sugar. Solan

114 S.N of Radish is called as

pod fruit of ~~St. ~~staple~~~~ is called

115 Type pod fruit of cole crops is called as Silique.

116 Fruit of carrot is called as Schizocarpe

118 S.N of Pigweed Chenopodium album

116 potato tuber moth introduced to India from Italy

117 Sweede & Turnip are the root cole crops

118 Edible portion of knolkhol stem, knob

119 Arka Sheetal is the variety of Long melon

120 Arka tinda is the variety of Round melon

121 Pusa shandar is the variety of Snapbean

121 Expand SAVERNET

South Asian Vegetable

11-10-2017

10

11007-101

~~727~~ S.N of horse radish tree  
727 Chetkarmunia is family Euphorbiaceae called as multi mineral packed leafy veg of family

728 Elube artichoke belongs family Compositae

729 water melon bud necrosis caused by  
a) virus b) MLO c) Trips d) fungus

730 Type of pollination in Amoranthus is  
a) Anemophilous b) Entomophilous c) ornithophilous d) none

731 Chromosome no of Spinach 12

~~732~~ Brinjal ~~Amoranthus~~ is known as poor man's vegetable

733 Pusa Sag-1 is the variety of  
a) leafy mustard b) carrot c) radish d) cauliflower

734 Spinach veg is the most nutritious among the group of leafy vegetable

735 Fenugreek belongs to the family Leguminaceae

736 S.N of Kasuri methi Trigonella

737 Edible portion of asathi Flowers & leaves

637 little leaf of bhajal transmitted by Leaf hopper

638 tree harsha is the triploid var of Carapa.

639 S.N of shallot / perennial onion A. e. arulonium

640 The term zoning is related to vegetable Beetroot.

641 S.N of Horse radish Armoracia rusticana with edible portion is root

642 Rhubarb belongs to the family \_\_\_\_\_

643 edible part of Asparagus is called as Spears.

708 Economic yield of Asparagus / harvesting start after \_\_\_\_\_  
at 6 month AM plants or 3 MAP or 2 yr AM plants  
at 170 days AM plants

~~644~~ S.N of Horse radish tree Armoracia rusticana

709 Chetkarmeni of family Euphorbiaceae is called as multi mineral packed leafy veg of family \_\_\_\_\_

710 Globe artichoke belongs family Compositae.

711 water melon bud necrosis caused by  
of virus or MLO or Trips or fungus

100. Sulphur compound present in the broccoli Sulphoraphane.

~~101~~ Among the vegetable ~~Watermelon~~ Muskmelon contain highest sugar.

102. mushroom city of India Solan

~~103~~ S.N of white button mushroom Collycybe indica

104. Self life of leafy vegetables enhanced by the appln of Benzyladenine  
10-20ppm

105. vegetables are processed at a temperature of 116-121°C.

106. Succalometer is used to measure the maturity of sweet ~~corn~~ corn

107. Pod set vegetable Winged bean.

108. Frost resistant legume Broad bean.

109. Goma manyani variety of Cluytu bean.

110. Cross pollinated legume Limabean

~~111~~ as potato bean Scarlet bean or Year bean d fall

112. The term bairism is related to vegetable Broad bean.

113. Galactomannan extracted from seed of vegetable Cluytu bean.



variety of Leek  
 variety of knol khol  
Leek is the non bulb forming member of alliacae family  
 propagation of sweet potato vine cutting

following is the monocious vegetable \_\_\_\_\_

- 487 of Sphe sound bt sweet sound of Elygaurd dt cassava  
 International Horticulture congress 2014 held @ Australia
- 488 ~~in~~ toxic substance present in colocasia ca oxalate
- 489 Tetrady ~~name~~ property flower is feature of cole crop  
 of cole crops bt lesumie of taro dt tomato.
- 490 Transgenic var beane of tomato flavor sour developed to  
 of enhance slk lk of Fruit bover of herbicide dt All
- 491 antherless mutant of tomato var hybrid  
 of Bhaskar bt pusa Dilya of pusa Drept dt Arka rakshak
- 492 orabanche most serious weed of brinjal
- 493 S.N of bathua & its family Chinapodium album, Chinapodium  
 producing country India

~~11~~ NHKDF located at ~~Thalwan~~  
97 World Vegetable Centre located at Thalwan.

107 Horticulture Society of India established in a year 1942

117 Indian scientist who got world food prize 2014 Sanjay Rajan.

127 6th Horticulture Congress held @ Columbator in a year 2014

137 Vegetable scientist who got padma shree 2014 Dr. Bramha Singh

147 most serious seed borne disease of cabbage Black rot

157 pusa parvati is the mutant variety of French bean.

167 The gene present in the Bt-brinjal cry-1Ac @ brinjal

177 Enation leaf curl is the most serious disease of okra.

187 1st reported @ IHR - 1924

~~197~~ 1st Horticulture Congress held @ ~~Thalwan~~ TARF in a year 2004

19207 International potato year 2008

24 potato late blight belongs Irish famine

227 yellow <sup>white</sup> colored ones are most susceptible to blight.



82. Coconut milk is a rich source of \_\_\_\_\_

- a. Cytokinin
- b. auxin
- c. gibberlin
- d. All

83. Wet meat is value added product prepared from \_\_\_\_\_

- A. jackfruit
- b. cocoa
- c. coconut
- d. none

84. Litchi is the rich source of \_\_\_\_\_

- A. calcium
- b. potassium
- C. iron
- d. magnesium

86. Biological control of parthenium using *zygogramma bicolorata* indicated it to be a major suppression acti between \_\_\_\_\_

- a. janyevary- may
- b. June -oct
- c. novembr- feb
- d. year round

85.

Sl.no	Product	TSS %
1	Sweetened juice - 10	40 ✓
2	Nectar - 15	55 ✓
3	Cordial → 30	65
4	Squash → 40	10
5	Crush → 55	15
6	Jelly → 65	30
7	Jam → 68	30
8	Ketchup - 28	30
9	Sauce - 30	68
10	Barley water 30	28

86.

0.3

1	Beetroot → Swollen hypocotyl	Flower bud
2	Brussels sprout → Axillary bud	Peduncle
3	Artichoke → Swollen inflorescence	Swollen inflorescence
4	Strawberry → fleshy thalamus	Leaf blade
5	Cashew apple - peduncle	Pericarp
6	Spinach → leaf blade	Axillary bud
7	Grape → pericarp	Fleshy receptacle - Strawberry
8	Apple → fleshy thalamus	Stem sprouts
9	Asparagus → stem sprout	Fleshy thalamus
10	Broccoli - Axillary bud	Swollen hypocotyl

63. Hurdle Technology is used to \_\_\_\_\_  
 a. Deoptimisation of conditions of food for harmful m.o  
 b. inhibiting the growth and development of harmful m.o  
 c. preventing food from microbial poisoning  
 d. All

64. Expand HACCP Hazard analysis critical control point and its role is used in processing ind to avoid food poisoning

65. Hydrocooling is not recommended for \_\_\_\_\_  
 a. mango  
 b. okara  
 c. banana  
 d. capsicum, Strawberry

66. CIPHET is located at \_\_\_\_\_  
 a. Mysore  
 b. Ludhiana (Aboor)  
 c. Tanjavoor  
 d. kolkatta

67. \_\_\_\_\_ cleaning method is employed for strawberry cleaning.  
 a. air system  
 b. spray cleaning  
 c. floatation cleaning  
 d. screen cleaning

68. Best degreening temperature for citrus 26.7°C

69. fruit crop, which is largely exported from india is \_\_\_\_\_  
 a. Banana  
 b. grape  
 c. mango (23% AP)  
 d. apple

70. which organization is engaged in export of processed products \_\_\_\_\_  
 a. FCI  
 b. APEDA Delhi  
 c. CIPHET  
 d. CFTRI

71. Anthology is the \_\_\_\_\_  
 A. study of anthurium  
 b. study of flowers - Anthelias  
 c. study of animal  
 d. none

73. Deficiency of iron leads to \_\_\_\_\_  
 A. Anamea  
 b. kwashiorkor  
 c. Bone weeknes  
 d. rickettsia

74. Dendrology is the \_\_\_\_\_  
 A. study of chrysanthemum  
 b. study of seeds  
 c. study of age in plant  
 d. study of woods

75. Digestive enzyme present in pineapple is Bromelin

76. Yellow flesh variety of kiwi fruit Hot 68

77. Sun UP and Rainbow are the transgenic papaya varieties developed through modification of coat protein genes for PRSV resistance.

78. The growth regulator used for reducing growth in grapes is CCC

(The training system followed in peach under low light conditions is Open center while under high light conditions Modified central leader training system is followed.)

80. Name the fruit crop which is grown under protected cultivation in india strawberry

81. \_\_\_\_\_ colour light promote color development in apple fruits.

- a. Blue & U.V rays  
 b. only U.V light  
 c. Red & U-V rays  
 d. all

Shree

Model test - 1

Prepared by: S. Hina, Pasanti  
I<sup>st</sup> M.Sc. (Pun)

ICAR - JRF - General agriculture

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(a) Dargona (b) Columbia (c) Syria (d) Nigeria.
- (8) The Great Bengal famine occurred in which year?  
(a) 1942 (b) 1943 (c) 1944 (d) 1968.
- (9) National Food Security Mission (NFSM) started in which year?  
(a) 2004 (b) 2005 (c) 2006- (d) 2007
- (10) In 2000, who got the world food prize for pioneer contribution in maize?  
(a) Dr. R.S. Paroda (b) Dr. S.K. Vashal (c) Dr. G.S. Khush (d) Dr. K.L. Chad

- Mango variety highly suitable for high density planting?
- (a) Amrapali (b) Ratna (c) Mallika (d) Arka amra
- De-blossoming is done in mango for?
- (a) Tolerate the low temperatures (b) control the malformation  
(c) Tolerate to improper pollination (d) high level of pollination.
- Fruit of citrus called?
- (a) palusta (b) zosis (c) Hesperidium (d) Drupe.
- Propagation [Commercial] method for Litchi?
- (a) Hard wood cutting (b) Trench layering (c) Air layering (d) T-budding.
- Most devastating pest in chillies were?
- (a) Thrips (b) Aphids (c) powdery mildew (d) Anthracnose.
- Pusa snow ball is a variety of,
- (a) Cabbage (b) cauliflower (c) beet root (d) cucumber.
- Rose garden of Chandigarh is example for which type of garden?
- (a) Formal type (b) Informal type (c) Free style type (d) Mughal type
- Culikand is prepared by mixing petals & sugar in which ratio?
- (a) 1:1 (b) 2:1 (c) 1:2 (d) 1:3
- Serious pest in wheat?
- (a) Termites (b) leaf cutter (c) leaf folder (d) grain bugs.
- 'Floring of square' in cotton due to.
- (a) Heliconia ornigera (b) Earias insulana (c) Earias vitella  
(d) Pectinophora gossypiella.
- ~~Which one of the characteristic symptom represent the effect of  
infestation in sorghum?~~
- (a) Early senescing (b) higher seed rate
- Colton boll worm & diamond back moth are example for?
- (a) Key pest (b) Major pest (c) Minor pest (d) Regular pest.
- Trade name of Phorate 10G?
- (a) Rogor (b) Thimet (c) Furadan (d) Kelthane.

22 Influrescence of broccoli  
of type racemose & panicle of Racemose dist. spike

23 Type of self-incompatibility found in cole crop Sporophytic.

24 Saurkraut is fermented product of prepared from  
of white cabbage & black radish & black carrot  
of red cabbage

25 Kanji is the product prepared from Black carrot.

26 The compound present in cabbage to cure bowel cancer Indole-3-carbinol

27 Black rot resistant var of cabbage & cauliflower, pyramutaspura Snowball

28 Black leg is most common @ alkaline soil

29 Whip tail is most common in acidic soil

30 Browns of cauliflower is most common in alkaline soil

31 Seed treatment of cabbage weevil is done @ temp 52°C

32 CCC&SADH per. increases low temp @ seed cabbage



25) The highest award presented to an agricultural scientist in the country?  
(a) Hookeah award (b) Jashcorlal Nehru award  
(c) Rafi ahmed kidwai award (d) Dr. B.P. pal Memorial award.

26) Bench terracing usually practised on slopes ranges from?  
(a) 10-14% (b) 18-26% (c) 16-33% (d) 18-35%.

27) If a rice grain in 2ha field, how much nursery area required for that?  
(a) 100 m<sup>2</sup> (b) 400 m<sup>2</sup> (c) 1000 m<sup>2</sup> (d) 2000 m<sup>2</sup>

28) Father of hybrid cotton in world?  
(a) Brays P.H (b) C.T. Patel (c) A. Grandner (d) Dr. Shastri.

29) The first Indian variety of rice?  
(a) IR-8 (b) Padma (c) Jaya (d) Sonalika.

30) In rainfed farming, the condition of moisture availability to crop?  
(a) PET = P (b) PET > P (c) PET < P (d) PET ≠ P

31) Ozone layer present in which layer of atmosphere?  
(a) Troposphere (b) Thermosphere (c) Stratosphere (d) mesosphere.

32) Which instrument used for measure the relative humidity (RH)?  
(a) Lysimeter (b) psychrometer (c) potometer (d) Hydrometer.

33) The contribution percentage of NEM in total rainfall in India?  
(a) 15% (b) 25% (c) 30% (d) 35%.

34) Dipping the practice done in which crop?  
(a) Tea (b) Tobacco (c) Cotton (d) Jute.

35) Khaira disease in rice due to deficiency of which nutrient?  
(a) P (b) Zn (c) Mg (d) Fe.

36) The crown root initiation (CRI) stage in wheat?  
(a) 14 days after sowing (b) 21 days after treading  
(c) 21 days after sowing (d) 14 days after treading.

37) Rabi malwa highly grown in which state?  
(a) UP (b) Bihar (c) West Bengal (d) Punjab.

1. Father of "pack & process technology" \_\_\_\_\_  
 A. Nicholas apart  
 B. Needham  
 C. Luis pasture  
 D. R. K Pal
2. Water melon is an \_\_\_\_\_  
 A. climatic fruit  
 B. typical climatic  
 C. non-climatic  
 D. All
3. Application of ozone water will minimize the (O<sub>3</sub>) oxidation process  
 A. Pesticidal residue  
 B. typical climatic microbial load  
 C. both a & b  
 D. none
4. Commercially used radiation source for food irradiation \_\_\_\_\_  
 A. cobalt 60  
 B. cesium 137  
 C. both a & b  
 D. uranium
5. Irradiation suppresses the \_\_\_\_\_  
 A. sprouting of onion & garlic  
 B. inhibit the ripening & senescence  
 C. Disinfection of mango stone weevil  
 D. all
6. Field inking is cosmetic disorder of \_\_\_\_\_ fruit  
 A. apple  
 B. peach  
 C. plum  
 D. almond
7. Calcium carbide commercially known as \_\_\_\_\_  
 A. calcium salt  
 B. kisan khad  
 C. masala  
 D. glum
8. Gray mould is the commercially most important pathogen of \_\_\_\_\_  
 a. fruits  
 b. nuts  
 c. veg  
 d. cut flower
9. Chlorine is very potent \_\_\_\_\_  
 A. sweetner  
 B. fungicides  
 C. surface steriligent  
 D. none
10. VHT is commercially used in \_\_\_\_\_  
 A. apple  
 B. peach  
 C. guava  
 D. Mango
11. Pectin available in fruit in the form of \_\_\_\_\_  
 A. calcium  
 B. calcium pectate  
 C. calcium pectin  
 D. all
12. Formation of ice crystals in fruits & veg under the field condition is due to \_\_\_\_\_  
 A. freezing injury  
 B. field icing  
 C. chilling injury  
 D. none
13. Major pest of ber \_\_\_\_\_  
 A. scale  
 B. white fly  
 C. fruit fly  
 D. aphid

64) Silver streaks of rice leaf due to ?

- (a) yellow stem borer (b) Bw hispa (c) Chalk midge (d) leaf miner

65) bunch top of banana in sugarcane due to ?

- (a) ~~TSR~~ Shoot borer (b) Nodul borer (c) Intermediate borer (d) Leaf hopper

66) GEAC stands ?

- (a) Genetic Engineering Approval Committee (b) Genetic Engineering Appraisal Committee  
(c) Genetic " Appointment " (d) Genetic " Appraisal "

67) Most of the plant virus are

- (a) ss - RNA (b) ss - DNA (c) ds - RNA (d) ds - DNA

68) ~~Which~~ Tetracycline effectively used to control ?

- (a) Fungus (b) bacteria (c) mycoplasma (d) Rickettsia like organism

69) Reproductive spores in Rust fungus ?

- (a) Teliospores (b) Aeciospores (c) basidiospores (d) uridiospores

70) Who discovered disease cycle of wheat rust in India ?

- (a) E. J. Butler (b) K. C. Malhotra (c) B. B. Meadkar (d) K. R. Kirtikar

71) Who proposed gene for gene hypothesis ?

- (a) E. J. Butler (b) Anton de Barry (c) H. H. Flor (d) Perout

72) A disease occurs widely in serona but occurred in periodically means ?

- (a) Endemic (b) Epidemic (c) sporadic (d) pandemic

73) Common scab disease of potato caused by ?

- (a) Fungus (b) bacteria (c) Phytoplasma (d) RLO

74) Bakanae disease associated with which growth regulator ?

- (a) Auxin (b) GA<sub>3</sub> (c) Ethylene (d) ABA

75) Turdu disease of wheat caused by ?

- (a) Fungus (b) bacteria (c) nematode (d) B & C

76) The nick name 'Needle nematode' belongs ?

- (a) paratitylanthus (b) Trichodorus (c) Xiphinema (d) Longidorus

40. Storage condition necessary to keep \_\_\_\_\_  
 A. low CO<sub>2</sub> & high O<sub>2</sub>      B. low O<sub>2</sub> & high CO<sub>2</sub>  
 C. both a & b      D. none
41. Most suitable packaging material for cut flower \_\_\_\_\_  
 a. wooden boxes      b. plastic boxes  
 c. corrugated fiber board boxes      d. cartons
42. Which is the cheapest preservation method of fruits & veg \_\_\_\_\_  
 a. canning      b. freezing  
 c. drying      d. fermentation
47. Best quality 'oleoresin' is extracted from \_\_\_\_\_  
 a. castor      b. chilli  
 c. onion      d. garlic
48. Hypobaric storage is mostly used for \_\_\_\_\_  
 a. fruits      b. nuts  
 c. veg      d. cut flower
49. Precooling is done to remove Field heat
50. Optimum temperature in cellar storage < 15°C
51. purpose of blanching is to inactivate enzyme
52. case hardening is the major problem in High T°C dehydrator
53. Drying is the process in which \_\_\_\_\_  
 a. free water removed      b. bound water is removed  
 c. both a & b      d. none
54. Dehydration is the process in which \_\_\_\_\_  
 a. free water removed      b. bound water is removed  
 c. both a & b      d. none
55. caramelization occurs due to heating at a high temperature of \_\_\_\_\_  
 a. acids      b. sugars  
 c. protein      d. fats
57. at high temp protein becomes \_\_\_\_\_  
 a. gelatinization      b. caramelization  
 c. denaturation      d. All
58. sweating is the postharvest operation followed in \_\_\_\_\_  
 a. coffee      b. black pepper  
 c. cardamom      d. vanilla
59. which vitamin is used as a Anti-oxidant in food preservation \_\_\_\_\_  
 a. Vitamin E & C      b. Vitamin B 3  
 c. Vitamin A      d. vitamin K
60. which among the following postharvest pathogen directly penetrate the healthy skin of the produce \_\_\_\_\_ but other pathogens need entry hole for there infection to takes place in produce .  
 a. Pencillium spp      b. colletotrichum spp / Sclerotium  
 c. Botrytis cinerea      d. Rhizopus spp
61. Ethylene is commercially available as Ethephon / Ethrel / ethephon CEPA
62. Swell, flat sour are the problems in \_\_\_\_\_  
 a. semi-solid products      b. Dried & dehydrated produce  
 c. canned products      d. Fruit juices

Precooling - the process of removal of vital field heat. Respiration heat & slowly down the metabolic activity from harvested horticulture commodity.

Vacuum cooling  
latent heat - principle

B7 - Biotin  
 B9 - Folic acid - Fe

6% Bound Water present in fruits & vegetable

15. Clostridium botulinum produces \_\_\_\_\_ toxin in food. canned  
 A. Neurotoxin B. Enterotoxin  
 C. cytotoxin D. all
16. The complete protein is called \_\_\_\_\_  
 A. Holoenzyme B. Apoenzyme  
 C. Enzyme D. none
17. PFA act comes to force \_\_\_\_\_  
 A. 1955 B. 1959  
 C. 1954 D. 2006
18. Fruit product order (FPO) comes to an force \_\_\_\_\_  
 A. 1955 B. 1959  
 C. 1954 D. 2006
19. Hybrid-11-2 & H-8-11 are the cultivars of Mango crop. H-11-2 - Ampalli x Septation  
H-8-11 - A x Lal Suroda
20. Last grade of apple is pitto
21. Tinting operation is carried out in white coloured flower
22. ZECC works on the principle of Evaporative cooling & ZECC fails to work during COOL Roing season
23. Edible part of strawberry Thalamus
24. T-stage is harvesting index in Apple
25. Immediate precursor of ethylene is methionine
26. \_\_\_\_\_ is called as spiced squash  
 A. appertizer B. Beverage  
 C. cordial D. squash
27. Mead is the wine prepared from \_\_\_\_\_
28. National pickle of india is Lime
29. Most popular pickle of india is Mango & in world is cucumber
30. In india grape is widely used for Raisin & in world wine
31. Post harvest disease of onion & garlic is Spreading glucose mould
32. Cell enlargement is takes place is due to accumulation of \_\_\_\_\_ in vacuole  
 A. sugars B. water  
 C. protien D. fat
33. Respiration rate per unit weight is highest for \_\_\_\_\_  
 a. immature fruit b. mature fruit  
 c. bot a & b d. none
34. Highest conc of ethylene producer is \_\_\_\_\_  
 A. pear B. mango  
 C. banana D. apple
35. Bluening of rose petal is due to \_\_\_\_\_  
 A. change in Ph B. change in auxin  
 C. change in fat D. all
36. Chilling injury occurs at 0-4°C (10-15°C)
37. Freezing injury occurs at < 0°C
38. Ancient method of judging maturity in mango Tapka
39. Oxidation of protein leads to Sproutification & fat leads to Rancidity

38. Burning of crop in field done for ?  
 (a) Temporary increases content (b) Juice quality (c) Harvesting the crop  
 (d) both a & b.
39. Bud necrosis in groundnut due to ?  
 (a) Aphids (b) Thrips (c) Whitefly (d) Leaf hoppers.
40. Pusa Jai Kisan is a variety of .  
 (a) Soybean (b) Sunflower (c) Mustard (d) Sesame.
41. What is the scientific name of Johnson grass?  
 (a) Pennisetum purpuriflorum (b) Pennisetum americanum  
 (c) Sorghum halepense (d) Argemone mexicana.
42. Example for non-selective herbicide which used as contact herbicide ?  
 (a) ~~Alachlor~~ Glyphosate (b) Paraquat (c) Isoproturon (d) Pendimethalin.
43. Ideal NPK ratio for cereals ?  
 (a) 2 : 1 : 1 (b) 3 : 2 : 1 (c) 4 : 2 : 1 (d) 5 : 3 : 1
44. Silt means: range falls under ?  
 (a) 0.2 - 2.0 (b) 0.02 - 0.2 (c) 0.02 - 0.002 (d) 0.002 - 0.0002.
45. Which one the main source for P fertilizer ?  
 (a) Biotite (b) Apatite (c) Dolomite (d) Orthoclase.
46. Highest acidic soils area found in which state ?  
 (a) UP (b) Bihar (c) Punjab (d) West Bengal.
47. If the soil having pH > 8.5 and EC < 4 means that soil is ?  
 (a) Saline soils (b) Saline-Alkali (c) Alkaline soils (d) acid soils
48. What is the NPK ratio in Fym ?  
 (a) 0.5 : 0.1 : 0.5 (b) 0.5 : 0.2 : 0.3 (c) 0.5 : 0.2 : 0.5  
 (d) 0.5 : 0.5 : 0.5
49. If one element is not present in plant, it cannot complete his life cycle, that element is .  
 (a) N (b) P (c) K (d) Fe.
50. Pahala blight of sugarcane due to the deficiency of ?  
 (a) S (b) Mg (c) Mn (d) Fe.

11. Why wheat is the special purpose for changing the pusa basmati-1 into improved pusa basmati-1?  
(a) Quality purpose (b) insect resistance (c) Disease resistance  
(d) Agronomic purpose.

12. Green revolution related to?  
(a) Fertilizers (b) Food processing (c) ~~Biological~~ <sup>Biological</sup> production (d) Manufacture of Agri. Implements.

13. Which one of the vitamin deficient will results Beri-beri disease?  
(a) Vit - A (b) Vit - B<sub>1</sub> (c) Vit - B<sub>2</sub> (d) Vit - B<sub>5</sub>

14. Which of the following vitamins are water-soluble?  
(a) A & D (b) A & B (c) B & C (d) B & D.

15. Kisan call Centre launched in the year?  
(a) Jan, 2004 (b) May, 2004 (c) Jan, 2005 (d) May, 2005.

16. Tetrazolium test conducted for?  
(a) Seed purity (b) Genetic purity (c) Seed viability (d) Seed germination.

17. Which amino acid deficient in cereals?  
(a) Lysine (b) Methionine (c) Tryptophan (d) a & c

18. C:N ratio in organic matter?  
(a) 10:1 (b) 20:1 (c) 14:1 (d) 100:1

19. N<sub>2</sub> biofertiliser used for sorghum?  
(a) Rhizobium (b) Azotobacter (c) Azospirillum (d) BGA.

20. In SSP, the sulphur contains level?  
(a) 12% (b) 14% (c) 16% (d) 18%.

21. Major micro-nutrient deficient in Indian soils?  
(a) Fe (b) Zn (c) Mg (d) Mn.

22. Origin of maize?  
(a) Brazil (b) Mexico (c) America (d) Turkey.

23. India first developed hybrid in which crop?  
(a) Maize (b) Sorghum (c) Pearl millet (d) Cotton.

24. A small gully means?  
(a) 3m deep & 18m wide (b) 3m deep & 9m wide (c) < 3m deep & 9m wide (d) < 3m deep & 18m wide