# CHANDIGARH HOUSING BOARD
# POST: JE(HORITCULTURE)
# Question Booklet & Answer Key
# 04.02.2023 (EVENING)

1. Choose the correct antonym for the given underlined word from the options that follow:-
*Trivial*
A) Petty B) Profound C) Idle D) Perturb

2. Choose the correct synonym for the given underlined word from the options that follow:-
*Tyro*
A) Novice B) Expert C) Professional D) Coward

3. Identify the error in the underlined parts of the sentence and mark the correct option:
In India there are (A) many poors people (B) that need help from (C) the government. (D)

4. Choose the correct preposition to be filled in the blank from the options that follow:-
Rishabh Pant was equal _____ the occasion.
A) on B) over C) at D) to

5. Choose the correct meaning of the given underlined idiom from the options that follow:-
*To be in hot water.*
A) To be in trouble B) To abuse others C) To surrender D) To work very hard

6. Before December 2022, when did India assume the monthly rotating presidency of the UN Security Council?
A) August 1991 B) August 2001 C) August 2011 D) August 2021

7. The Total percentage of Carbon present in our human body is:
A) 12 to 14 percent B) 15 to 16 percent C) 18 to 19 percent D) 20 to 25 percent

8. Engineering marvel Mahatma Gandhi Setu, connects Patna to:
A) Bhojpur B) Buxar C) Danapur D) Hajipur

9. Which of the following is the most western island of India?
A) Barren Island B) Divar Island C) Munroe Island D) Pamban Island

10. Which of the following is the state tree of Chandigarh?
A) Mango B) Peepal C) Shisham D) Palash

11. Find out the wrong term of the series:
4, 31, 130, 349, 728, 1339,
A) 31 B) 130 C) 728 D) 1339

12. Ravi travelled 4 km straight towards South. He turned left and travelled 6 km straight, then turned right and travelled 4 km straight. How far is he from the starting point?
A) 8 km B) 10 km C) 12 km D) 18 km

13. In a queue, X is $10^{th}$ from the front while Y is $25^{th}$ from rear and Z is in the middle of the two. If there are 50 persons in the queue, what position does Z occupy from the front?
A) $18^{th}$ B) $20^{th}$ C) $17^{th}$ D) None of these

14. A shopkeeper placed eight varieties of cloth pieces of different colours viz. Brown, Pink, Green, White, Blue, Violet, Black and Yellow, in a row such that Blue cloth is placed fifth from the left end. Green is placed to the extreme right. White cloth is second to the left of Blue. Violet cloth is exactly in between blue and third to the left of Brown. Pink is not the third to the right of Violet.
Which of the following is the correct position of yellow with respect to pink?
A) $6^{th}$ to the right B) $6^{th}$ to the left C) $5^{th}$ to the right D) $4^{th}$ to the left

15. In a certain code language, 'CURATIVE' is written as 'BSVDDUHS'. How 'STEAMING' is to be written in the same code language?
A) BFUTLHMF B) TUFBFMHL C) BFUTFMHL D) BFUTHOJN

16. Two vessels P and Q contain milk and water mixed in the ratios of 5 : 3 and 2 : 3 respectively. When these mixtures are mixed to form a new mixture containing half milk and half water, then find the ratio in which P and Q are mixed?
A) 4 : 5 B) 2 : 5 C) 1 : 4 D) 5 : 2

17. Raju travelled 120 km by bus, 450 km by bike and 60 km by car. It took 13.5 hours. If the speed of the bike is 3 times that of the car and 1.5 times that of the bus, find the speed of the bike?
A) 45 km/hr B) 35 km/hr C) 60 km/hr D) 42 km/hr

18. Sonu completes 5/8 of a job in 20 days. At this rate, how many more days will he take to finish the job?
A) 6 days B) 18 days C) 5 days D) 12 days

19. Four boys and three girls stand in queue for an interview. The probability that they stand in alternate position, is
A) $\frac{1}{34}$ B) $\frac{1}{35}$ C) $\frac{1}{17}$ D) $\frac{1}{68}$

20. Capacity of tap B is 80% more than that of A. If both the taps are opened simultaneously, they take 45 hours to fill the tank. How long will B take to fill the tank alone?
A) 72 hr. B) 48 hr. C) 66 hr. D) 70 hr.

21. Pick up wrongly matched pair.
A) Internet Explorer – Microsoft
B) Random access – Magnetic Disk
C) Vacuum Tubes – First Generation Computers
D) Artificial Intelligence – Third Generation Computers

22. The first instruction of bootstrap loader program of an operating system is stored in:
A) RAM B) Hard Disk C) Cache Memory D) BIOS

23. JPEG, an image file format, stands for
A) Joint Photographic Experts Group B) Joint Photographic Encryption Group
C) Joint Photographic Experts Graphics D) Joint Photographic Encryption Graphics

24. A confidential file needs to be deleted from a workstation having Windows OS. Which is the most effective way to ensure this?
A) Rename the file B) Compress the file and back-up to tape
C) Copy and paste the file into the recycle bin and empty the recycle bin
D) Drag the file into the recycle bin and empty the recycle bin

25. Which of the following statement(s) is/are true with regard to websites?
P: A blog is a website that consists of posts in reverse chronological order.
Q: A wiki is a website that is designed to allow people to collaborate easily.
Choose the correct answer from the following:
A) P only B) Q only C) Both P and Q D) Neither P nor Q

26. Soil fungi producing macroscopic fruit-bodies partially or completely embedded in soil or humus is:
A) Epigeous B) Hypogeous C) Mesophilic D) Xerophilic

27. Downy mildew of grapes is caused by fungus:
A) *Albugo candida* B) *Mucor* species
C) *Phytophthora infestans* D) *Plasmopara viticola*

28. The diseases of crop plants caused by nematodes can be controlled by environment friendly:
A) *Arthrobotrys* B) *Candida* C) *Cercospora* D) *Colletotrichum*

29. Abscisic acid is also known as:
A) CCC B) Dormin C) Nekrohormone D) Phenoxyacetic acid

30. Potato is _____ for inducing flowering, but _____ for tuber formation.
A) LDP, SDP B) SDP, LDP C) LDP, Day-neutral D) SDP, Day-neutral

31. Red pigment in tomato is formed due to:
A) Over production of auxin B) Over production of abscisic acid
C) Deficiency of gibberellins D) Delayed effect of phytochrome

32. The optimum temperature for vernalization of seeds ranges between:
A) -4°C to 0°C B) -1°C to 8°C C) 7°C to 12°C D) 12°C to 15°C

33. Rotation of crops maintains the _____ content of soil at a particular level.
A) Carbon B) Hydrogen C) Nitrogen D) Potassium

34. The rate of respiration is higher in:
A) Dormant seeds B) Embryos of germinating seeds C) Mature tissues D) Spores

35. The axis of future plant in a seed is represented by:
A) Cotyledons B) Kernel C) Seedcoat D) Tigellum

36. Mustard fruit is:
A) Lomentum B) Regma C) Siliqua D) Silicula

37. Early blight of potato is a:
A) Foliage disease B) Root disease C) Tuber disease D) Tuber bud disease

38. Bordeaux mixture is composed of
A) Ammonia and sulphur B) Ammonia and copper sulphate
C) Copper sulphate and lime D) Sulphur and lime

39. Mercuric chloride and Mercurous chloride are used as _____ protectants.
A) Foliage B) Flower C) Root D) Seed

40. The best-known Indian State for Sandalwood forests is:
A) Assam B) Bihar C) Karnataka D) West Bengal

41. Plants in which genes from another organism are transferred are known as:
A) Cultured plants B) Hybrid plants C) Mutant plants D) Transgenic plants

42. Wheat species commonly known as 'Bread Wheat' is:
A) *Triticum aestivum* B) *Triticum durum* C) *Triticum dicoccum* D) *Triticum turgidum*

43. Sorghum (Jowar) and Pennisetum (Bajra) are:
A) Cereals B) Legumes C) Millets D) Nuts

44. Chief protein found in maize is known as:
A) Globulins B) Glycoprotein C) Scleroprotein D) Zeins

45. Spices and condiments are not grouped as food because:
A) They are used by few people B) Their production is localized
C) They contain less nutritive value D) They do not contain essential minerals

46. The outer region of wood which is of lighter colour is known as:
A) Autumn wood B) Spring wood C) Heart wood D) Sap wood

47. Ontogenic classification of crops is based upon:
A) Agro-techniques B) Climatic requirements C) Life cycle D) Purpose of cultivation

48. Moisture content necessary for the safe storage of wheat is:
A) Less than 10% B) Less than 12% C) Less than 15% D) Less than 18%

49. The agricultural practice of harvesting a monocot crop by cutting most of the above-ground portion but leaving roots and growing shoot apices intact allowing fresh crop in next season is:
A) Seed crop B) Seedling crop C) Transgenic crop D) Ratooning

50. Alternate bearing in most of the North Indian varieties of mango can be largely controlled by:
A) NAA B) Paclobutrazol C) Bordeaux mixture D) Systemic fungicide

51. In Pineapple, the nature of fruit is:
A) Berry B) Drupe C) Sorosis D) Syconus

52. Mandarin or loose skinned orange is:
A) *Citrus aurantifolia* Swingle B) *Citrus paradisi* Macf.
C) *Citrus reticulata* Blanco D) *Citrus sinensis* (L.) Osbeck

53. A group of vegetable crops originated from a common parent the wild cabbage (*Brassica oleracea* var. sylvestris) is:
A) Bulb crops B) Cole crops C) Root crops D) Fruit vegetables

54. The nature of most prominent herbicides such as 2,4-D or 2,4-DB is:
A) Auxin B) S-Triazines C) Carbamates D) Substituted urea

55. Plant diseases based upon root rots, wilts, cankers, scab and/or blight are classified based upon:
A) Plant part B) Occurrence C) Spread D) Symptoms

56. A gene coding for an antigenic protein isolated from a pathogen and cloned in a bacterial host is:
A) Conventional vaccine B) Gene therapy C) Probiotics D) Synthetic vaccine

57. The cells and/or plants containing nucleus from one of species but cytoplasm from both parental species are:
A) Cybrids B) Somatic hybrids C) Symmetric hybrids D) Asymmetric hybrids

58. Most of horticulture produce is highly perishable because of:
A) Soft fruit wall B) High sugar content
C) High pectic compounds D) High water content

59. In a planting system, the practice of tilling sloped land along lines of consistent elevation to conserve rainwater and reduce surface erosion is:
A) Contour system B) Hedgero system C) Quincunx system D) Square system

60. The fruit trees planted during winter in dormant condition before start of new growth are:
A) Evergreen B) Deciduous C) Tropical D) Sub-tropical

61. A piece of stem inserted by means of two graft unions between the stock and scion is:
A) Root stock B) Interstock C) Scion stock D) Inverted budding

62. A management system using hay, straw or cut grass between rows of trees to conserve soil moisture is:
A) Clean cultivation B) Sod culture C) Intercrops D) Mulching

63. The practice of fertilizer application spreading it uniformly over the entire field is:
A) Band/strip B) Broadcasting C) Fertigation D) Foliar

64. When stamens and carpels of a bisexual flower mature at different times:
A) Allogamy B) Cleistogamy C) Dichogamy D) Dicliny

65. The scientific name of fruit fly of guava fruits is:
A) *Bactrocera dorsalis* B) *Ferrisia virgata*
C) *Mocrocolona technographa* D) *Nippaecoccus viridis*

66. The Kinnow is a high yield mandarin hybrid of two citrus cultivars:
A) *Citrus aurantium* and *Citrus sinensis* B) *Citrus limon* and *Citrus jambhiri*
C) *Citrus maxima* and *Citrus myrtifolia* D) *Citrus nobilis and Citrus deliciosa*

67. The principal source of Indian turpentine oil is:
A) *Rosa* B) *Pogostemon* C) *Pinus* D) *Syzygium*

68. The existence of seed legislation with the requirement of seed labelling will ensure:
A) Higher yielding varieties B) Marketing of seeds at controlled rates
C) Orderly marketing of high-quality seeds D) Timely availability of seeds to the farmers

69. The common name of *Dianthus caryophyllus*, an important commercial flower is:
A) Amaryllis B) Carnation C) Dahlia D) Daisy

70. Propagation material used for commercial cultivation of Tuberose (*Agave amica*, formerly *Polianthes tuberosa*) is:
A) Bulbs B) Cuttings C) Graft and budding D) Poly-embryonic seeds

71. The plants not conforming to genetic and physical characteristics of a desirable crop plant should be:
A) Commercially exploited B) Promoted
C) Rogued out D) Used in agroforestry

72. Self-incompatibility is known phenomenon in _____ species.
A) Brassica B) Brinjal C) Carrot D) Tomato

73. Maximum exploitation of heterosis in crop plants is possible only through _____ with high degree of heterozygosity.
A) Bud propagules B) $F_1$ hybrids C) Protoplast culture D) Sexually reproduced seeds

74. Seed transmission of viruses generally occurs through:
A) Cotyledons B) Endosperm C) Epicotyls D) Gametes

75. To check the seed viability and vigour, seed germination is tested with:
A) Agglutination test B) DNA fingerprinting C) ELISA test D) Tetrazolium test

76. Loose smut of wheat and barley was controlled in India and Sweden through:
A) Direct involvement of the local government
B) Disallowing their cultivation for two consecutive years
C) Farmers direct participation
D) Seed certification programmes

77. For eradication of inoculums of specific pathogen highly specific _____ are useful.
A) Acid treatment of seeds B) Hot water treatment
C) Systemic fungicides D) Storage of seeds at chilling temperature

78. Cotton wilt, *Fusarium oxysporum* f. sp. *vasinfectum* is often known to be more serious in:
A) Inadequately fertilized soils B) Potassium deficient soils
C) Sodium deficient soils D) Water deficient soils

79. The inorganic materials are stored by seeds in the form of:
A) Cellulose B) Phytin C) Pectin D) Volutin

80. While preparing fruit jam the end point temperature is kept as:
A) 99.5°C B) 102.5°C C) 105.5°C D) 108.5°C

81. The producers of fruits and vegetables earn responsible returns by adopting:
A) Efficient certified seeds B) Efficient marketing systems
C) Efficient pre-cooling systems D) Efficient storage practices

82. Maximum possible economic yield for a crop from a unit land area, when all factors affecting the crop growth and yield are without any constraints:
A) Crop yield B) Harvest C) Harvest yield D) Potential yield

83. Crops grown within the geographical limits of their origin are:
A) Exotic B) Indigenous C) Introduced D) Native

84. A mechanical control method against borers to kill the insect by inserting a needle or wire into the hole is:
A) Collection B) Netting C) Shaking or beating branches D) Spike thrust

85. The shape and arrangement of soil particles with respect to each other in a soil mass or block is defined as
A) Soil architecture B) Soil structure C) Soil texture D) Soil grading

86. Based upon the relative quantity normally present in a plant, select the list of trace elements:
A) C, H, Ca, Cu, Mo B) C, H, O, N, P, K
C) Ca, Mg, S, O D) Fe, Mn, Zn, Cu, Mo, B

87. A direct nucleus division into two without loss of nuclear membrane and the formation of chromosomes is:
A) Amitosis B) Mitosis C) Karyokinesis D) Reductional division

88. Reappearance of an ancestral genetic trait after being lost through evolutionary change in previous generations is:
A) Adaptation B) Autotomy C) Atavism D) Mutation

89. Keeping the agricultural land vacant without raising any crop is
A) Fallowing B) Farm integration C) Monoculture D) Rotation

90. The starting point in the production of genetically superior seed of multipurpose tree species is the selection of:
A) Candidate plus trees B) High yielding varieties
C) Indigenous trees D) Pest resistant varieties

91. Betel chewing is considered as a good source of:
A) Calcium B) Magnesium C) Potassium D) Sodium

92. Which of the followings is <u>not</u> a tropical fruit?
A) Banana B) Apple C) Mango D) Pineapple

93. Why the clay pots after continuous use in the nursery require soaking in water before their re-use?
A) Aeration of clay particles B) To cool inner lining of pot to assist seed germination
C) To loosen clay particles D) To remove toxic salt accumulations

94. Which of the following is <u>not</u> a pseudocarp?
A) Apple B) Banana C) Guava D) Tomato

95. The fruit of *Litchi* is:
A) Dry and many seeded B) Dry and single seeded
C) Succulent and many seeded D) Succulent and single seeded

96. $T_1$ plasmid used in genetic engineering is obtained from:
A) *Agrobacterium rhizogenes* B) *Agrobacterium tumefaciens*
C) *Bacillus thuringiensis* D) *Psudomonas syringae*

97. Testa of seed is inseparably fused with pericarp in:
A) Castor B) Gram C) Maize D) Pea

98. Cotton fibres are made up of:
A) Fats B) Proteins C) Cellulose D) Starch

99. The formation of stable ice crystals due to freezing of plant cells is:
A) Ice nucleation B) Protoplast dehydration C) Super cooling D) Theoretical freezing

100. Hypoxic roots lacking sufficient $O_2$ accelerates the production of _____ causing epinasty.
A) Abscisic acid B) Ethylene C) Auxins D) Cytokinin

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# Chandigarh Housing Board
## Post: JE (HORTICULTURE)
## Answer Key (A-Series) : 04.02.2023 (Evening)

| Q.No. | Ans | Q.No. | Ans | Q.No. | Ans | Q.No. | Ans |
|---|---|---|---|---|---|---|---|
| 1 | B | 26 | B | 51 | C | 76 | D |
| 2 | A | 27 | D | 52 | C | 77 | C |
| 3 | B | 28 | A | 53 | B | 78 | B |
| 4 | D | 29 | B | 54 | A | 79 | B |
| 5 | A | 30 | A | 55 | D | 80 | C |
| 6 | D | 31 | D | 56 | D | 81 | B |
| 7 | C | 32 | B | 57 | A | 82 | D |
| 8 | D | 33 | C | 58 | D | 83 | D |
| 9 | B | 34 | B | 59 | A | 84 | D |
| 10 | A | 35 | D | 60 | B | 85 | B |
| 11 | C | 36 | C | 61 | B | 86 | D |
| 12 | B | 37 | A | 62 | D | 87 | A |
| 13 | A | 38 | C | 63 | B | 88 | C |
| 14 | A | 39 | D | 64 | C | 89 | A |
| 15 | C | 40 | C | 65 | A | 90 | A |
| 16 | A | 41 | D | 66 | D | 91 | A |
| 17 | C | 42 | A | 67 | C | 92 | B |
| 18 | D | 43 | C | 68 | C | 93 | D |
| 19 | B | 44 | D | 69 | B | 94 | D |
| 20 | D | 45 | C | 70 | A | 95 | B |
| 21 | D | 46 | D | 71 | C | 96 | B |
| 22 | D | 47 | C | 72 | A | 97 | C |
| 23 | A | 48 | A | 73 | B | 98 | C |
| 24 | D | 49 | D | 74 | D | 99 | A |
| 25 | C | 50 | B | 75 | D | 100 | B |