

QUESTION BOOKLET AND ANSWER KEY

For Recruitment Test for the post of

SDE Horticulture

Code-P-3

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ENGLISH VERSION

1. 'ਸੋਹਲੇ ਗਾਉਣਾ' ਮੁਹਾਵਰੇ ਦਾ ਅਰਥ ਹੈ ?
 (A) ਨਿੰਦਿਆ ਕਰਨੀ (B) ਖੁਸ਼ੀ ਦੇ ਗੀਤ ਗਾਉਣੇ
 (C) ਸਿਫਤਾਂ ਕਰਨੀਆਂ (D) ਚੀਕਣਾ
2. ਪੰਜਾਬੀ ਧੁਨੀਆਂ ਨੂੰ ਕਿੰਨੀਆਂ ਕਿਸਮਾਂ ਵਿੱਚ ਵੰਡਿਆ ਜਾਂਦਾ ਹੈ :
 (A) ਦੋ (B) ਤਿੰਨ (C) ਚਾਰ (D) ਪੰਜ
3. 'ਮਲਵਈ' ਕੀ ਹੈ :
 (A) ਭਾਸ਼ਾ (B) ਵਿਆਕਰਣ (C) ਖੇਤਰ (D) ਉਪ-ਭਾਸ਼ਾ
4. ਵਿਸਮਿਕ ਹੁੰਦੇ ਹਨ :
 (A) ਜਿਹੜੇ ਕੇਵਲ ਖੁਸ਼ੀ ਦੇ ਭਾਵਾਂ ਨੂੰ ਪ੍ਰਗਟ ਕਰਨ
 (B) ਜਿਹੜੇ ਕੇਵਲ ਗਮੀ ਦੇ ਭਾਵਾਂ ਨੂੰ ਪ੍ਰਗਟ ਕਰਨ
 (C) ਜਿਹੜੇ ਖੁਸ਼ੀ, ਗਮੀ, ਹੈਰਾਣੀ ਅਤੇ ਚਿੰਤਾ ਦੇ ਭਾਵ ਪ੍ਰਗਟ ਕਰਨ
 (D) ਜਿਹੜੇ ਚਿੰਤਾ ਦੇ ਹੀ ਭਾਵ ਪ੍ਰਗਟ ਕਰਨ
5. ਪੰਜਾਬੀ ਵਿਆਕਰਨ ਅਨੁਸਾਰ 'ਦਾ' ਸ਼ਬਦ ਕੀ ਹੈ
 (A) ਸੰਬੰਧਕ (B) ਯੋਜਕ (C) ਮਿਸ਼ਰਤ (D) ਪੜਨਾਂਵ

Directions (Qs. 6- 8):- Choose the opposite of the given word:-

Q. 6. Literal:-

- (A) Illiterate (B) Lateral (C) Illiberal (D) Figurative

Q.7. Base:-

- (A) Determined (B) Delectable (C) Good (D) Casual

Q.8. Morbid:-

- (A) Solicitous (B) Wholesome (C) Melancholic (D) Equivocal

Directions (Qs.9-10) :- Choose the correct preposition to be filled in the blanks :-

Q.9. Rama is anxious _____ his performance.

- (A) about (B) at (C) for (D) with

Q.10. Sania Mirza was knocked _____ in the first round of the Australian Open.

- (A) for (B) off (C) with (D) out.

11. MSP stands for?

- (A) Minimum selling Price (B) Maximum Support Price
 (C) Maximum Selling Price (D) Minimum Support Price

12. The percentage of seats reserved for children from disadvantaged and disability group according to "Right of Children to free and compulsory education" is?

- (A) 25% (B) 20% (C) 30% (D) 22.5%

13. **The first state in India to constitute the institution of Lokayukta is?**
(A) Kerala (B) Punjab (C) Orissa (D) Karnataka
14. **Which of the following is a non luminous object?**
(A) Sun (B) Moon (C) CFL (D) tube light
15. **Which of the following is not the name of a banking organisation?**
(A) HDFC (B) FICCI (C) IDBI (D) ICICI
16. **What is a closed circuit?**
(A) a circuit in which current cannot flow (B) an electric cell
(C) a torch bulb (D) a circuit in which current can flow
17. **A bar magnet when suspended freely always points in the?**
(A) East west direction (B) North south direction
(C) vertically upwards (D) vertically downwards
18. **The Halley's comet can be seen after every _____ years.**
(A) 76 (B) 72 (C) 66 (D) 86
19. **The presidential system of government is characterized by?**
(A) adult franchise (B) executive
(C) legislature (D) separation of powers
20. **FIR stands for?**
(A) First Information Report (B) Formal Intimation Report
(C) First Investigation Report (D) Formal Investigation Report
21. **International Kite festival in India is held at?**
(A) Ahmedabad (B) Gandhinagar
(C) Porbundar (D) Pune
22. **Which country hosted the first cricket world cup?**
(A) West Indies (B) England
(C) Australia (D) India
23. **The smallest element of computer storage is?**
(A) byte (B) bit
(C) pixel (D) disk
24. **Which is the newly inducted fleet tanker to the Indian navy?**
(A) INS Virat (B) INS Shakti
(C) INS Kursura (D) INS Arabia
25. **What is Slinex 2?**
(A) Fastest super computer (B) India USA joint Naval exercise
(C) Satellite launched by China (D) India-Sri lanka joint naval exercise
26. **January 25 is observed as?**
(A) International women's Day (B) National literacy day
(C) World peace day (D) National Voters day

27. **The fourth state of matter is referred to as?**
 (A) Plasma (B) liquid drop
 (C) Bose-Einstein condensate (D) none of these
28. **Which of the following constitutes the Indian Parliament?**
 (A) Lok Sabha (B) Rajya Sabha
 (C) Lok Sabha and Rajya Sabha (D) Lok Sabha, Rajya Sabha and President
29. **When a Banker talks about CMA, what he is talking about?**
 (A) Credit Monitoring Agreement
 (B) Corporate Monitoring Agreement
 (C) Company Management Accountant
 (D) Commissionerate of Municipal Administration
30. **“Top Quark” refers to?**
 (A) A latest medicine (B) latest fundamental particle discovered
 (C) A Hollywood film (D) A super computer
31. **“Psephology” refers to the study of ?**
 (A) Bio-diversity (B) fossils
 (C) election trends (D) human hair
32. **‘Voice of the people’ is the Punch line of?**
 (A) Indian Express (B) The Tribune
 (C) Hindustan times (D) Times of India
33. **Local self government in India was introduced by?**
 (A) Lord Cornwallis (B) Lord Ripon
 (C) Lord Dalhousie (D) Lord Canning
34. **Which of the following is responsible for the depletion of Ozone layer?**
 (A) Carbon dioxide (B) carbon monoxide
 (C) chlorofluorocarbons (D) ultraviolet rays.
35. **Green house effect is caused by high levels of?**
 (A) fog, smoke and oxidants (B) Carbon dioxide and methane
 (C) Carbon dioxide (D) Carbon and aromatic hydrocarbons
36. **Three of the following four pairs have same relation between their elements and hence form a group. Which one does not belong to the group?**
 (A) Plenty : Leptyn (B) Coward : Owcrad
 (C) Alwins : Lwanis (D) Examin : Xaeimn
37. **Which pair of the English letters should be the next in the series of pairs of letters of English alphabet given below? BE, GK, MR, TZ, BI**
 (A) JR (B) KS (C) JS (D) KR
38. **What should come in place of question mark (?) in the following series?**
 A3E, D6H, ? , J12N
 (A) F9J (B) G9L (C) F9K (D) none of these

39. Five friends A, B, C, D and E are staying in the same locality. B's house is to the east of A's house and to the north of C's house. C's house is to the west of D's house. D's house is in which direction with respect to A's house?
 (A) South-east (B) North east (C) East (D) none of these
40. If white is called blue, blue is called red, red is called yellow, yellow is called green, green is called black, black is called violet and violet is called orange, what would be the colour of human blood?
 (A) red (B) yellow (C) green (D) violet
41. If BOMBAY is written as MYMYMY, how will TAMILNADU be written in that code?
 (A) MNUMNUMNU (B) TIATATIA
 (C) IATATAT (D) ALDALDALD
42. In a certain code 'open the door' is written 'ka te jo', 'door is closed' is written as 'jo pa ma', and 'this is good' is written as 'la ra pa' What is the code for 'closed'?
 (A) pa (B) ma (C) jo (D) ka
43. In certain code language '743' means 'mangoes are good'; '657' means 'eat good food' and '934' means 'mangoes are ripe, which digit means ripe in that language?
 (A) 9 (B) 4 (C) 5 (D) 7
44. Pointing to a photograph a man said, "I have no brother or sister but that man's father is my father's son". Whose photograph was it?
 (A) his own (B) his son's (C) his father's (D) his nephew's
45. A and B are brothers. C and D are sisters. A's son is D's brother. How is B related to C?
 (A) father (B) brother (C) grandfather (D) uncle
46. Arrange the given words in alphabetical order and choose the one that comes second
 (A) explosion (B) eager (C) emergency (D) ecstasy
47. How many D's are there in the following series which are immediately followed by W but not immediately preceded by K?
 KDCWKDWNKGDWWDHKVDWZDW
 (A) Three (B) One (C) Two (D) four
48. Rs.665 was divided among A, B, and C in the proportion of 2/3:4/3:4/5. What is C's share?
 (A) Rs.133 (B) Rs.192 (C) Rs.240 (D) Rs.360
49. Physiology is related to Biology in the same way as Metaphysics is related to?
 (A) Philosophy (B) Mathematics (C) Statistics (D) Physics

50. Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to that group?
(A) Coriander (B) Mustard (C) cumin (D) Cardamom
- 51 Multimedia can contain
A) Graphics, animation, video, music, and voice
B) Only numeric-type data
C) Numeric, text, and picture data
D) Databases that in turn, contain other databases, creating massive data collection
- 52 Which of the following can be used as a primary memory?
A) Magnetic Tape (B) RAM (C) Optical Disk (D) Hard Disk
- 53 Which of the following operating system is available in free domain?
A) Red Hat Linux (B) SUN Solaris (C) Windows XP (D) Mac OS
- 54 Professionally designed model presentations are called
A) Animations (B) Slide shows (C) Templates (D) Copy runs
- 55 Which of the following is an output device?
A) Web Cam (B) Scanner (C) Multimedia Projector (D) Mouse
- 56 Which is the default file extension for MS-Word 2007 files :
A) .doc (B) .docx (C) .word (D) .rtf
- 57 Buying and Selling goods over Web is known as :
A) E-commerce (B) M-commerce (C) Trading (D) Hyper Market
- 58 Basic purpose of Microprocessor is to:
A) store information (B) print data (C) compute data (D) send an e-mail
- 59 Portrait and Landscape in Ms-Office are
A) Page Orientation (B) Paper Size (C) Page Layout (D) All of above
- 60 Find and Replace utility is available in:
A) MS-Word (B) MS-Excel (C) MS-Power Point (D) All of the above
61. The quality of farmer's saved seed is far below the standards of certified seeds particularly in respect of:
A) Seed germination and field emergence (B) Seed health and genetic purity
C) Yield of the crop (D) All the above
62. Name of the tree species more commonly known as 'Flame of the forest' is
A) *Bauhinia purpurea* (B) *Butea frondosa*
C) *Cassia javanica* (D) *Colvillea racemosa*

63. *Spathodia campanulata*, *Acacia auriculiformis*, *Jacaranda mimosaeifolia*, *Pongamia glabra* and *Thespesia populnea* are known amongst the _____ trees.
- A) Nectar yielding
B) Swamps and marshy area
C) Ornamental
D) Salt resistant
64. It is very difficult to control red hairy caterpillar by conventional insecticidal treatments if the control measure is:
- A) Delayed till the larvae reach advanced and full grown stage
B) At reproductive stage of the crop
C) Harvesting stage of the crop
D) None of the above
65. The two major insect pests of the wheat crop namely termites and Gujhia cause damage to the crop mainly by:
- A) Systemic rise through vascular system
B) Attacking root system of the plant
C) Loss of chlorophyll
D) All the above
66. For eradication of inoculums of specific pathogen highly specific _____ are useful.
- A) Fungicides especially systemic
B) Acid treatment of the seeds
C) Effective storage of seeds at chilling temperature
D) Hot water treatment
67. Soil erosion is a process of _____ of soil by natural agencies like water and wind etc.
- A) Detachment and transportation
B) Degradation and removal
C) Leaching and mixing
D) Percolation and synthesis
68. Soil colour is the result of soil forming process termed as _____
- A) Lithochromic
B) Pedochromic
C) Pedography
D) Rock succession
69. Reflection coefficient for green vegetation is expressed in percentage as
- A) 2 %
B) 3 %
C) 5 %
D) 8 %
70. Sun provides us energy every year equivalent to the burning coal of about
- A) 90 trillion tones
B) 100 trillion tones
C) 120 trillion tones
D) 130 trillion tones
71. The curriculum adopted by agricultural universities (according to ICAR, 1995) for trained agricultural human resource keeping in view the employment opportunities and gives credit for imparting:
- A) 80% technical and 20% soft skills
B) 40 % technical and 60% soft skills
C) 20% technical and 80% soft skills
D) 100% technical skills
72. Respiratory losses in tobacco leaves, involving hydrolysis and oxidative deaminization, may lead to a decrease in dry matter by about:
- A) 15 %
B) 18 %
C) 20 %
D) 23 %

73. **The lepidopterous larvae which bore into the tissue of paddy plant causing a great concern in India is mainly due to:**
A) *Tryporyza incertulas* B) *Escherichia coli*
C) *Leptocorisa oratorius* D) None of the above
74. **The existence of seed legislation with the requirement of seed labelling will ensure:**
A) Timely availability of seeds to the farmers
B) Marketing of seeds at controlled rates
C) Orderly marketing of high quality seeds
D) Higher yielding varieties
75. **Chemical Hybridising Agents (CHA) are also used to cause:**
A) Ovule infertility without affecting pollens
B) Pollen fertility and making ovules infertile
C) Pollen abortion without affecting ovule fertility
D) None of the above
76. **Ozone layer is being depleted with the higher usage of products that emit**
A) Ultraviolet radiations B) Chlorofluorocarbons
C) Greenhouse gases D) Deforestation
77. **A multipurpose non-edible oil yielding perennial shrub originated in tropical America and Western Asia is**
A) Spirullina B) Jatropha C) Jojoba D) All of the above
78. **The major components of the soil are**
A) Micro-organisms, air, mineral matter and water
B) Mineral matter, organic matter, water and air
C) Sand, loam, silt and organic matter
D) Mineral and organic matter
79. **Starting point in the production of genetically superior seeds of a multipurpose tree species is the selection of**
A) High yielding varieties B) Pest resistant varieties
C) Candidate plus trees D) Indigenous trees
80. **The large and conspicuous inflorescence of sunflower is known as**
A) Cymose B) Racemose C) Solitary D) Capitulum
81. **Examination of _____ is a quick method for the detection of seed borne fungal diseases.**
A) Wet seeds B) Dry seeds C) Germinated seeds D) Viability test
82. **The literal meaning of the word 'locust' is**
A) Localization B) Spreading C) Plague D) Weathering
83. **The main rooting hormone used for the purpose of vegetative propagation is**
A) IBA B) IAA C) NAA D) Kinetin

84. **Micropropagation, a tissue culture technique under laboratory conditions is**
A) *In vivo* B) *In vitro* C) *In situ* D) *Ex situ*
85. **Commercial value of *Gladiolus* for the attractive florets is due to**
A) Inflorescence B) Spikes C) Cut flowers D) Coloured leaflets
86. **The hormone used to get multiple shoots in tissue culture technique is**
A) IBA B) Cytokinins C) Auxins D) ABA
87. **Dissociation constant (K_w) of water is directly proportional to _____.**
A) Atmospheric pressure B) Temperature
C) Diffusion D) Acidity
88. **Climatic and geographical locality where the tree seeds are produced is referred to as**
A) Provenance B) Indigenous C) *In-situ* D) Local
89. **A pH range of _____ is best for growth of most of the plants.**
A) 3.5 – 5.5 B) 4.5 – 6.5 C) 5.5 – 7.0 D) 6.5 – 8.0
90. **The propagation of *Magnolia grandiflora* is carried out vegetatively mainly through**
A) Air-layering B) Stem cuttings C) Tissue culture D) Rhizomes
91. **pH of water is acidic (< 7.0) because of**
A) Carbonic acid B) Room temperature
C) High ratio OH ions D) None of the above
92. **Cotton wilt, *Fusarium oxysporum* f. sp. *vasinfectum* is often known to be more serious in _____ soils.**
A) Water deficient B) Sodium deficient
C) Potassium deficient D) Inadequately fertilized
93. **A decrease in air temperature of 6.5 °C/km with an increase of height is known as**
A) Lapse rate B) Adiabatic rate
C) Kinetic Temperature zone D) Ozonosphere
94. **The origin of soil, its classification and description are involved in**
A) Pedology B) Edaphology C) Texture studies D) Soil mineralogy
95. **The 'unavailable' form of water where it is held tightly by the surface of the soil particles by the forces of adhesion or adsorption is**
A) Capillary water B) Hygroscopic water
C) Gravitational water D) All of the above
96. **The practice of using a systematic and rotational sequence of herbicides in the same field to control formation of herbicide resistant weeds is**
A) Herbicide mixture B) Herbicide rotation
C) Herbicide tolerance D) All of the above

97. Based on the relative Quantity that is normally present in Plants, following is the list of trace elements
A) C, H, O, N, P, K
B) Ca, Mg, S, O
C) Fe, Mn, Zn, Cu, Mo, B
D) C, H, Ca, Cu, Mo
98. The end product after decomposition of lignin is
A) Cellobiose and glucose
B) Ammonia
C) Carbon dioxide and water
D) Organic acids
99. Lithosols, regosols and alluvium, the group whose development is influenced more by the nature of its parent material are known as _____ soils.
A) Azonal
B) Zonal
C) Intrazonal
D) None of the above
100. Usually the seed crop is harvested after the seeds has reached
A) Yellowing stage
B) Browning stage
C) Physiological maturity
D) All of the above
101. As the tea moves down the drying chamber of regulated dryer the wet temperature should remain constant at about:
A) 33.7 °C
B) 35.7 °C
C) 37.7 °C
D) 39.7 °C
102. The Earth's crust (outer solid layer) principally is composed of
A) Organic matter
B) Soil ingredients
C) Mineral matter
D) Microscopic water contents
103. What is the importance of buffering to agriculture?
A) It prevents sudden changes and fluctuation in soil pH
B) It regulates the availability of nutrients to the plants
C) It checks direct toxic effects to the plant
D) All of the above
104. The availability of Nitrogen and Phosphorus to plants is maximum in the pH range of
A) 5.5 to 6.5
B) 6.5 to 7.5
C) 7.5 to 8.5
D) 8.5 to 9.5
105. Which of the following factors control soil reaction?
A) Nature of soil colloids
B) Salts dissolved in capillary water
C) Climate and soil management
D) All of the above
106. India ranks first in production of oil seeds in the world for
A) Mustard
B) Sunflower
C) Groundnut
D) Soybean
107. In the absence of acceptable technology of pulses processing or milling the losses of edible fraction continue to occur in the range of
A) 1 to 5 %
B) 5 to 10%
C) 10 to 15 %
D) 15 to 20 %
108. Arhar contains an average percentage of protein N as
A) 21
B) 24
C) 27
D) 30
109. India's alone contribution in whole Asia's fruit production is
A) $\frac{1}{4}$
B) $\frac{1}{3}$
C) $\frac{1}{2}$
D) $\frac{3}{4}$

110. The quality of the finished agricultural product can be controlled more carefully by
A) Dryer B) Dehydrator C) Evaporator D) Homogeniser
111. The most important substance required for the fruit jelly is
A) Acid B) Sugar C) Sucrose D) Pectin
112. The maximum produced vegetable crop in India is
A) Onion B) Potato C) Okra D) Tomato
113. When the tea leaves are wet the initial bacterial count is greater and during their drying off process it increases _____ fold.
A) Two B) Three C) Four D) Five
114. Tobacco develops undesirable SO₂ until the tobacco's original moisture is down to _____ percent.
A) 30 B) 40 C) 50 D) 60
115. Sealed corn seeds with 11% moisture content can maintain full viability for 9 years at
A) 0 °C B) -2 °C C) -4 °C D) -5 °C
116. Identical lot numbers to the same variety are assigned by the field numbering system for every _____ years.
A) 8 B) 10 C) 12 D) 14
117. _____ preserves the fresh field latex in good fluid condition for a long time in the proportion of 0.7% of latex by weight.
A) Sodium hydroxide B) Sodium chloride
C) Potassium hydroxide D) Sodium potassium hydroxide
118. Under normal conditions each coffee bush bears approximately
A) 100 fruits B) 150 fruits C) 200 fruits D) 250 fruits
119. Heat sensitive _____ present in the germ and aleurone layers of the grain get destroyed at high temperature.
A) Enzymes B) Edible proteins C) monosaccharides D) β-vitamins
120. During processing and storage of rice losses occur in India to the tune of
A) 4-6 % B) 6-8 % C) 8-10% D) 10-12%

KEY P-3											
Q	A	Q	A	Q	A	Q	A	Q	A	Q	A
1	C	21	A	41	A	61	D	81	B	101	C
2	A	22	B	42	B	62	B	82	C	102	C
3	D	23	B	43	A	63	C	83	A	103	D
4	C	24	B	44	B	64	A	84	B	104	B
5	A	25	D	45	D	65	B	85	C	105	D
6	D	26	D	46	D	66	A	86	B	106	C
7	C	27	A	47	A	67	A	87	B	107	C
8	B	28	D	48	A	68	B	88	A	108	B
9	A	29	A	49	A	69	C	89	C	109	A
10	D	30	B	50	D	70	C	90	A	110	B
11	D	31	C	51	A	71	A	91	A	111	D
12	A	32	B	52	B	72	C	92	C	112	B
13	C	33	B	53	A	73	A	93	A	113	B
14	B	34	C	54	C	74	C	94	A	114	C
15	B	35	B	55	C	75	C	95	B	115	D
16	D	36	A	56	B	76	B	96	B	116	B
17	B	37	B	57	A	77	B	97	C	117	D
18	A	38	D	58	C	78	B	98	B	118	B
19	D	39	A	59	A	79	C	99	A	119	D
20	A	40	B	60	D	80	D	100	C	120	B