

QUESTION PAPER AND KEY

Recruitment Test held on 9.4.2011 (Morning Session)

POST:

SENIOR BRANCH OFFICER

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(English Version)

1. 'ਅਧਿਆਪਕ' ਸ਼ਬਦ ਦਾ ਸੁੱਧ ਰੂਪ ਚੁਣੋ:

(A) ਅਧਿਆਪਕ (B) ਅਧਿਆਪਕ (C) ਅਧਿਆਪੀਕ (D) ਅਧਿਆਪਿਕ
2. 'ਮੁੰਡਾ ਗੀਤ ਰਿਹਾ ਹੈ' ਵਾਕ ਵਿੱਚੋਂ ਨਾਂਵ ਚੁਣੋ:

(A) ਗੀਤ (B) ਮੁੰਡਾ (C) ਰਿਹਾ (D) ਹੈ
3. 'ਅਸੀਂ ਕੱਲ੍ਹ ਦਿੱਲੀ ਜਾਵਾਂਗੇ' ਵਾਕ ਵਿੱਚ ਕਿਰਿਆ ਚੁਣੋ:

(A) ਦਿੱਲੀ (B) ਕੱਲ੍ਹ (C) ਜਾਵਾਂਗੇ (D) ਅਸੀਂ
4. ਪੜਨਾਂਵ ਦੀਆਂ ਕਿੰਨੀਆਂ ਕਿਸਮਾਂ ਹੁੰਦੀਆਂ ਹਨ :

(A) ਤਿੰਨ (B) ਚਾਰ (C) ਪੰਜ (D) ਛੇ
5. 'ਸੁੰਗੜਨਾ' ਸ਼ਬਦ ਦਾ ਉਲਟ-ਭਾਵੀ ਸ਼ਬਦ ਹੈ :

(A) ਵੱਡਾ (B) ਖਿਲਰਨਾ (C) ਵਧਣਾ (D) ਛੋਟਾ
6. 'ਭਗਵਾਨ' ਸ਼ਬਦ ਦਾ ਸਮਾਨਾਰਥੀ ਹੈ :

(A) ਰੱਬ (B) ਗੁਰੂ (C) ਵੱਡਾ (D) ਪੈਰੰਬਰ
7. 'ਮਲਵਈ' ਕਿਸ ਖੇਤਰ ਵਿੱਚ ਬੋਲੀ ਜਾਂਦੀ ਹੈ :

(A) ਮਾਲਵਾ (B) ਪੁਆਧ (C) ਮਾਝਾ (D) ਪਹਾੜੀ
8. ਜਿਹੜਾ ਬੱਚਾ ਸਭ ਤੋਂ ਪਹਿਲਾਂ ਜਨਮੇ :

(A) ਪਾਂਧੀ (B) ਜੇਠਾ (C) ਅੰਤਲਾ (D) ਛੇਕੜਲਾ
9. 'ਉੱਲੂ ਬੋਲਣੇ ਦਾ ਅਰਥ ਹੈ :

(A) ਉੱਚੀ ਬੋਲਣਾ (B) ਧੀਮੇ ਬੋਲਣਾ (C) ਉਜਾੜ ਹੋਣੀ (D) ਮਾੜਾ ਬੋਲਣਾ
10. 'ਸਿਰੋਂ ਨੰਗਾ ਹੋਣਾ' ਕੀ ਹੈ :

(A) ਮੁਹਾਵਰਾ (B) ਵਾਕੰਸ਼ (C) ਅਖਾਣ (D) ਵਾਕ
11. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਵਿੱਚ ਲਿੰਗ ਦੀਆਂ ਕਿੰਨੀਆਂ ਕਿਸਮਾਂ ਹਨ:

(A) ਤਿੰਨ (B) ਚਾਰ (C) ਦੋ (D) ਪੰਜ
12. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਵਰਣਮਾਲਾ ਵਿੱਚ ਕਿੰਨੇ ਅੱਖਰ ਹਨ:

(A) ਪੈਂਤੀ (B) ਛੱਤੀ (C) ਸੈਂਤੀ (D) ਅਠੱਤੀ
13. ਵਿਸ਼ੇਸ਼ਣ ਦੀਆਂ ਕਿਸਮਾਂ ਹੁੰਦੀਆਂ ਹਨ :

(A) ਛੇ (B) ਸੱਤ (C) ਅੱਠ (D) ਪੰਜ

Directions : (Qs 14- 18):- Choose the correct preposition, out of the four choices given below, which may be used in filling the gaps:-

14. The person who murdered a woman.....cold blood was arrested yesterday.
(A) with (B) in (C) at (D) upon
15. The suspect was said to be close ... the Mehra family.
(A) to (B) in (C) with (D) upon
16. Nobody knew where the road led...
(A) from (B) into (C) to (D) off
17. Four armed intruders barged a temple last night.
(A) from (B) to (C) in (D) into
18. The police initiated a probe into the allegations levelled.....the victims ... the accused.
(A) with, by (B) against, by (C) upon, by (D) at, from

Directions: (Qs 19-25):- Choose the expression, out of the four choices given below, that best expresses the meaning of the following idioms and phrases:-

19. to carry weight :-
(A) to carry burden (B) to be effective
(C) to be ineffective (D) to work as a slave
20. to bite on granite :-
(A) to rebel (B) to strengthen (C) to delay (D) to waste energy
21. to cut one dead :-
(A) to kill someone (B) to injure someone severely
(C) to refuse to recognize (D) to cut something.
22. to bring down the house :-
(A) to dismantle a building (B) to reconstruct a building
(C) to praise somebody (D) to draw applause
23. to have a bee in one's bonnet :-
(A) to express anger (B) to be mad or crazy about something
(C) to be full of pride (D) to be shy.
24. to be above board :-
(A) to be honest (B) to show respect to others
(C) to board a vehicle (D) to criticize
25. to be a square peg in a round hole:-
(A) to criticize others (B) to measure others
(C) to be a misfit (D) to be the centre of attraction.
26. P% of q is q% of
(A) $\frac{p}{100}$ (B) p (C) $\frac{q}{100}$ (D) 100q
27. $\log(a \cdot b)$ may be expressed as:
(A) $\log a \cdot \log b$ (B) $\log(a + b)$ (C) $\log a + \log b$ (D) $\log a - \log b$
28. If A and B are two finite sets then $n(A \times B)$ = number of elements in $A \times B$ is equal to
(A) $\min.\{n(A), n(B)\}$ (B) $n(A) + n(B)$ (C) $\max.\{n(A), n(B)\}$ (D) $n(A) \times n(B)$
29. Use $\sin 45^\circ = \frac{1}{\sqrt{2}}$ and $\sin 30^\circ = \frac{1}{2}$ to choose the value of $\sin 15^\circ$ from the following
(A) $\frac{1}{\sqrt{2}} - \frac{1}{2}$ (B) $\frac{\sqrt{3}-1}{2\sqrt{2}}$ (C) $\frac{\sqrt{3}+1}{2\sqrt{2}}$ (D) none of these
30. Out of the 5 boys and 2 girls, a committee of 3 is to be formed. In how many ways can it be formed if at least one girl is to be included?
(A) 20 (B) 25 (C) 32 (D) 60
31. Rs. 100 invested for 5 years at 6% per annum interest compounded annually will grow to:
(A) $[100(1.06)]^5$ (B) $100[1 + (.06)(5)]$ (C) $100(1 + .06)^5$ (D) 106^5

32. What will be the remainder if $(x^{97} - 1)$ is divided by $x + 1$.
 (A) 96 (B) -2 (C) 0 (D) 2
33. If we know that $a < b$ and $c \leq d$, then we can deduce that
 (A) $a - d < b - c$ (B) $a - c \leq b - d$ (C) $a - c < b - d$ (D) $c - a < d - b$
34. Mohan and Sohan can do a job in 12 days. Sohan alone can finish it in 28 days. In how many days can Mohan alone finish the work?
 (A) 18 (B) 24 (C) 12 (D) 21
35. We say two sets A and B are equal iff
 (A) $n(A) = n(B)$ (B) $A \subset B$ and $B \subset A$
 (C) $A^c = B^c$ (D) none of these
36. Which of the following does not flow through Punjab?
 (A) Sutlej (B) Ravi (C) Beas (D) Jhelum
37. On which side of India is Punjab situated?
 (A) North West (B) South West (C) East West (D) North South
38. As per the report released by the Govt. of India, various Govt. agencies procured about 15 million tonnes of wheat during the recent Rabi season. Which of the following states was the largest contributor to this stock of 15 million tonnes?
 (A) Uttar Pradesh (B) Kerala (C) Punjab (D) Tamil Nadu
39. The concept of 'Carbon Credit' is associated with which of the following areas?
 (A) Protection of environment (B) Women empowerment
 (C) Development of rural infrastructure (D) Development of coal mines
40. Which is the most popular game of Punjab?
 (A) Hockey (B) Kabaddi (C) Kho-Kho (D) Badminton
41. How many are the Border States of Punjab?
 (A) 3 (B) 4 (C) 5 (D) 6
42. Where is Punjab Agriculture University located?
 (A) Chandigarh (B) Amritsar (C) Ludhiana (D) Jalandhar
43. Who is the Pioneer of Punjabi Novel?
 (A) Sr. Gurdial Singh (B) Sr. Nanak Singh
 (C) Sr. Nanak Duggal (D) Sr. Gurdial Singh Dhilon
44. When was the Punjab School Education Board established in Punjab?
 (A) 1969 (B) 1959 (C) 1949 (D) 1939
45. Which is the biggest District of Punjab?
 (A) Fatehgarh Sahib (B) Mansa (C) Morinda (D) Ferozepur
46. Which is the most famous temple of Punjab?
 (A) Golden Temple (B) Durgiana Temple
 (C) Devi Talab Temple (D) Heritage Temple
47. When was SGPC established in Punjab?
 (A) 1970 (B) 1925 (C) 1922 (D) 1924
48. The two companions of Bhagat Singh, who were hanged along with him, were:
 (A) Sukhdev and Harikishan (B) Sukhdev and Yashpal
 (C) Sukhdev and Bhagwati Charan (D) Sukhdev and Rajguru
49. The Siachen Glacier region is a trouble spot between—
 (A) India and Bangladesh (B) India and Pakistan
 (C) China and Russia (D) Pakistan and Afghanistan
50. Who built the Grand Trunk Road?
 (A) Chandragupta Maurya (B) Sher Shah Suri
 (C) Shahajahan (D) Lord Dalhousie
51. Who was the first Governor of Punjab?
 (A) Mr. Chandu Lal Trivedi (B) Bansilal
 (C) Gopi Chand (D) Amrinder Singh
52. Where is the science city of Punjab?
 (A) Jalandhar (B) Ludhiana (C) Moga (D) Khanna

53. **Who is the first IPS lady of Punjab?**
 (A) Ms. Surinder Kaur (B) Bibi Jagir Kaur
 (C) Ms. Rajinder Kaur (D) Ms. Kiran Bedi
54. **Who was the first Chief Minister of Punjab?**
 (A) Ajit Singh (B) Gurmeh Singh
 (C) Tota Singh (D) Gopi Chand Bhargva
55. **Where is the headquarters of Punjab school Education Board?**
 (A) Ludhiana (B) Chandigarh (C) Mohali (D) Amritsar
56. **Who is the Punjabi Poetess to get Jananpith Award?**
 (A) Ms. Amrita Shergil (B) Ms. Amrita Pritam
 (C) Dalip Kaur Tiwana (D) Ms. Sharmila Panday
57. **Who is the pioneer of Punjabi Suba?**
 (A) Master Tara Singh (B) Giani Zail Singh
 (C) Sardar Partap Singh Kairon (D) Master Mohan Lal
58. **When were Punjab and Pepsu merged?**
 (A) 1950 (B) 1952 (C) 1953 (D) 1956
59. **Which is the biggest grain market of Punjab?**
 (A) Morinda (B) Mansa (C) Kotkapura (D) Khanna
60. **Where is the Sikh Heritage Complex developed?**
 (A) Mansa (B) Amritsar (C) Ropar (D) Anandpur Sahib
61. **Which is the major occupation of Punjabis?**
 (A) Fisheries (B) Sports things (C) Farming (D) Dairy
62. **Which District of Punjab has lowest literacy rate?**
 (A) Patiala (B) Moga (C) Khanna (D) Mansa
63. **Who was the first Sikh ruler of Punjab?**
 (A) Guru Nanak Dev (B) Maharaja Ranjit Singh
 (C) Bhai Lakha Singh (D) Guru Govind Singh
64. **Which is the most Polluted City of Punjab?**
 (A) Jalandhar (B) Bhatinda (C) Ludhiana (D) Sirsa
65. **Which city is called the Manchester of Punjab?**
 (A) Jalandhar (B) Ludhiana (C) Chandigarh (D) Amritsar
66. **Gurmukhi was standardized by?**
 (A) Guru nanak Dev (B) Guru Angad Dev
 (C) Guru Teg Bahadur (D) Guru Gobind Singh
67. **Shree Guru Nanak Dev was born in?**
 (A) 1466 (B) 1467 (C) 1468 (D) 1469
68. **How many out of five Takhts of Sikhism is/are in Punjab**
 (A) One (B) Two (C) Three (D) Four
69. **Dam which has been constructed near Madhopur Head Works is?**
 (A) Bhakra Dam (B) Nangal Dam (C) Ranjit Sagar Dam (D) Sutlej Dam
70. **In which year Haryana was carved out of Punjab?**
 (A) 1960 (B) 1962 (C) 1964 (D) 1966
71. **after two abortive Anglo-Sikh wars, Punjab was finally annexed to the British Empire in?**
 (A) 1849 (B) 1850 (C) 1851 (D) 1852
72. **Who is the current Governor of Punjab?**
 (A) Shri Arjun Singh (B) Shri M.L Desmukh
 (C) Smt. Urmila Singh (D) Shri Shivraj Patil
73. **Who was the second human to touch the moon soil, next to Neil Armstrong?**
 (A) Edwin Aldrin (B) Richard Gordon (C) William Anderson (D) David Scott
74. **First Marshall of Indian Air Force was**
 (A) Arjan Singh (B) Nirmaljit Singh Sekhon
 (C) Sudhir Mehta (D) Ashwani kumar

75. For which of the following countries did the Reserve Bank of India act as the central bank in addition to India?
- (A) Bangladesh (B) Pakistan (C) Srilanka (D) Myanmar
76. A father's age is four times as much as the sum of the ages of his three children but six years hence his age will be only double the sum of their ages. Find his present age.
- (A) 35 (B) 40 (C) 60 (D) 20
77. The average attendance in a school for the first 4 days of the week is 30 and for the first 5 days of the week is 32. The attendance on the fifth day is
- (A) 36 (B) 40 (C) 38 (D) 34
78. If the radius of the circle in plane is increased three times, then the area of the circle will be increased by
- (A) 2 times (B) 4 times (C) 6 times (D) 9 times
79. What will be 80 per cent of a number whose 200 per cent is 90?
- (A) 36 (B) 24 (C) 52 (D) 32
80. The capacity of a room 5 metre high is 500 cubic meters. If the room is a square how much paper 2 meter wide will be required to cover its walls?
- (A) 105 m (B) 100 m (C) 110m (D) 120m
81. The ratio of two numbers is 3:8 and their difference is 115. The largest number is
- (A) 29 (B) 120 (C) 184 (D) 230
82. Find the greatest number that will divide 1625, 2281 and 4218 leaving remainders 8, 4, 5 respectively,
- (A) 11 (B) 14 (C) 13 (D) 20
83. The length of a rope by which a horse must be tethered so that it may be allowed to graze over an area of 784 square meters is
- (A) 18.22 m (B) 13.68 m (C) 15.8 m (D) 22.31 in
84. The least number which must be added to 5,678 to make it a perfect square is :
- (A) 90 (B) 53 (C) 98 (D) 73
85. The area of a plot is 480 meters. If each side had been 5 m longer, the area would have been increased by 245 square meters. Find the length of the fence to surround it.
- (A) 90 meters (B) 88 meters (C) 87 meters (D) 84 meters
86. Which one of the following groups of letters will appear the same in a mirror?
- (A) YUMOVMY (B) YMOVONY (C) VOAMAOV (D) HVRTRVH
87. If the word PENCIL is coded as LICNEP, how would the word INKPOT is coded?
- (A) HMKOPS (B) JOKQPU (C) TOPINIK (D) TOPKNI
88. If GIGANTIC is written as GIGTANCI, how is MIRACLES coded?
- (A) MIRLACSE (B) RIMCALSE (C) RIMLCAES (D) MIRLCAES
89. If 'rain' is called 'pink'; 'pink' is called 'cloud'; 'cloud' is called 'water'; 'water' is called 'breeze' and 'breeze' is called 'moon' what do you wash your hands in?
- (A) Water (B) Moon (C) Breeze (D) Rain
90. Find the odd man out
- (A) Prime minister (B) Governor (C) Speaker (D) M.L.A
91. Find out the letter which is in MOHAN and SOHAN but not in MANISH
- (A) S (B) N (C) R (D) O

92. Find the odd man out
(A) Cricket (B) Football (C) Hockey (D) Table tennis
93. "Water" is related to "Dam" as "Trade" is to:
(A) Money (B) Goods (C) Commerce (D) Shipping
94. "Argument" is related to "Debate" as fight is to:
(A) Contest (B) Quarrel (C) Friendship (D) Controversy
95. As "Bird" is to "Feather" so "Cat" is to:
(A) Paws (B) Fur (C) Feet (D) Hair
96. Oranges were purchased at Rs 150 per hundred and sold at Rs 2 per orange. If a profit of Rs 1000 was made how many oranges were purchased?
(A) 3000 (B) 1000 (C) 2000 (D) none of these
97. 400 mangoes were bought for Rs 125 per hundred and were sold for a profit of Rs 100 the selling price per dozen is
(A) Rs 16 (B) Rs 21 (C) Rs 15 (D) none of these
98. A man divides Rs 10,290 between his son and daughter in the ratio of 11:10. How much did the son get?
(A) Rs 6000 (B) Rs 5390 (C) Rs 5820 (D) none of these
99. A group of 1200 persons consisting of captains and soldiers is traveling in a train. For every 15 soldiers there is one captain. The number of captains in the group is
(A) 85 (B) 80 (C) 75 (D) 70
100. A bus starts from city X. The number of women in the bus is half of the number of men. In city Y, 3 men leave the bus and five women enter. Now number of men and women is equal. In the beginning, how much passengers entered the bus?
(A) 15 (B) 12 (C) 18 (D) 24
101. The shortcut key for "copy" from document in Microsoft Office is :
(A) CTRL + S (B) CTRL + C (C) CTRL + A (D) CTRL + V
102. The grammar dialog box can be invoked by choosing grammar from _____ menu in Microsoft Word 2003.
(A) Insert (B) file (C) Tools (D) view
103. The Shortcut key to align document from both sides left and right to the margins is :
(A) CTRL + B (B) ALT + J (C) CTRL + J (D) FN+B
104. Which of the following should you use if you want all the slides in the presentation to have the same "look"?
(A) A presentation design template (B) Add a slide option
(C) Outline view (D) The slide layout option
105. In order to edit a chart, you can
(A) Triple click the chart object (B) Click and drag the chart object
(C) Double click the chart object (D) Click the chart object
106. To exit the MS-PowerPoint
(A) Click the application minimize button
(B) click the document close button
(C) double click the applications control menu icon
(D) double click the document control menu icon
107. There are three types of data found in a spreadsheet.
(A) Data, words, numbers (B) Equations, data, numbers
(C) Words, numbers, labels (D) Numbers, formulas, labels
108. You can use the drag and drop method to
(A) Copy cell contents (B) Delete cells contents
(C) Add cell contents (D) All of above
109. If you press, the cell accepts your typing as its contents.
(A) Enter (B) Ctrl + Enter (C) TAB (D) Insert
110. In a worksheet you can select
(A) The entire worksheet (B) Rows
(C) Columns (D) All of the Above

111. Losses due to shedding and shattering of grains in the field can be considerably reduced when paddy is harvested at moisture content of:
(A) 15 - 18 % (B) 18 - 23 % (C) 23 - 25 % (D) 25 - 27 %
112. The quality of starch does not change appreciably upto a temperature of _____.
(A) 50 °C (B) 55 °C (C) 60 °C (D) 70 °C
113. At the time of physiological maturity of the plant the food grains hold moisture content to the tune of _____.
(A) 12-15 % (B) 16-18 % (C) 20-25 % (D) 26-30 %
114. Heating up to a temperature of _____ does not cause any negative impact on the quality of wheat grain during vacuum drying.
(A) 40 °C (B) 45 °C (C) 50 °C (D) 55 °C
115. Maize oil and gluten has the following percentage of proteins
(A) 50 % (B) 55 % (C) 60 % (D) 65 %
116. The solvent extraction milling rice is known as a _____.
(A) Traditional technique (B) Old technique
(C) New technique (D) Obsolete technique
117. More careful control of the quality of the finished product is permitted by:
(A) Drier (B) Dehydrator (C) Evaporator (D) Homogeniser
118. Loose packing of vegetables result spoilage in transit nearly upto:
(A) 8 % (B) 10 % (C) 15% (D) 20 %
119. During processing of fruits and vegetables transport losses occur in general as:
(A) 10-15 % (B) 15-20 % (C) 25-30 % (D) 30-40 %
120. The optimum storage conditions for onion without any warming period is:
(A) 4 °C (B) 0 °C (C) -4 °C (D) -6 °C
121. Harvesting of carrot is usually done when the roots at the upper end attain a diameter of:
(A) 1.5 - 2.5 cm (B) 2.5 - 3.5 cm (C) 3.5 - 4.5 cm (D) 4.5 - 5.5 cm
122. 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
123. Respiratory losses in tobacco leaves, involving hydrolysis and oxidative deamination, may lead to decrease in dry matter by about:
(A) 15 % (B) 18 % (C) 20 % (D) 23 %
124. Tensile strength of annealed aluminium foil increases in strength as gauge or thickness is:
(A) Lowered (B) Equalizes
(C) Increased (D) In medium range
125. The permanent taste in ginger is due to:
(A) Oil (B) Minerals (C) Resins (D) Starch
126. Sealed corn seeds with 11 percent moisture content can maintain full viability for 9 years at:
(A) 0 °C (B) -2 °C (C) -4 °C (D) -5 °C
127. In coconut oil the amount of saturated acids present are:
(A) 60 % (B) 70 % (C) 80% (D) 90%
128. The literal meaning of word 'Locust' is:
(A) Location (B) Area (C) Pests (D) Plague
129. The most important and easily distinguishable characteristic of white ants from the true ants is:
(A) Absence of constricted waist between thorax and abdomen
(B) Colour coding of body platelets
(C) Size of the body
(D) Cryptobiotic life of the termite
130. The name 'Phadka' is given to a species of grasshopper, viz.:
(A) Hieroglyphus banian Fabricius (B) Colemania sphenarioides Boliver
(C) Hieroglyphus nigrorepletus Boliver (D) None of the above

131. 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
132. The moth borer with its Latin name *Chilo partellus* Swinhoe is a very serious pest mainly of _____ affecting practically all the tracts of India.
 (A) Sugarcane (B) Maize and Sorghum
 (C) Potatoes (D) Onion
133. The most serious pest of the mustard crop namely, *Lipaphis erysimi* Kaltentbach is a:
 (A) Root eater (B) Aphid
 (C) Grain eater (D) All the above
134. 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
135. Which of the following types help in improving quality of the seed?
 (A) Self pollination (B) Vegetative reproduction
 (C) Cross pollination (D) All the above
136. Which parameters should be assessed to see the effect of seed quality of cotton on yield and plant performance?
 (A) Time taken for seed germination and higher final seedling establishment
 (B) Accelerated ageing, cold test along with field stand and yield
 (C) $Q O_2$ -uptake and the conductivity test
 (D) All the above
137. The common name of *Dianthus caryophyllus*, an important commercial flower is:
 (A) Amryllis (B) Daisy (C) Carnation (D) Dahlia
138. What are dangers of using exotic tree species to particular habitat?
 (A) Loss of wood
 (B) Loss of desired wood quality
 (C) Attack by pest or morality due to change in environment
 (D) All the above
139. Self incompatibility is known phenomenon in all _____ vegetable species.
 (A) Brinjal (B) Tomato (C) Brassica (D) Carrot
140. 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
141. Hybrid 4, a cross between G-67 a commercial cultivar of Gujarat State and American Nactariless, an accession from USA was released for first ever commercial _____ in the world.
 (A) BT cotton (B) Hybrid cotton (C) Hybrid rice (D) Hybrid maize
142. Seed transmission of viruses generally occurs through:
 (A) Cotyledons (B) Endosperm (C) Gametes (D) Epicotyls
143. The curriculum adopted by agricultural universities (according to ICAR, 1995) for trained agricultural human resource in view of employment opportunities give 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
144. The understanding of relation between educational level and composition of the labour force is key determinant of the:
 (A) Better government functioning (B) Betterment of the human resources
 (C) Economic growth (D) per capita income

145. As per estimation, consciousness amongst the farmers to use quality seed especially in _____ varieties is missing as it is still met privately by farmers with their own produce.
(A) Cross pollinating (B) Self pollinating
(C) Self incompatible (D) Vegetatively reproduced
146. Loose smut of wheat and barley was controlled in India and Sweden through:
(A) Farmers direct participation
(B) Disallowing their cultivation for two consecutive years
(C) Seed certification programmes
(D) Direct involvement of the local government
147. Cotton wilt, *Fusarium oxysporum* f. sp. *vasinfectum* is known often to be more serious in _____ soils.
(A) Water deficient (B) Sodium deficient
(C) Potassium deficient (D) Inadequately fertilized
148. Generally a continued decrease has been recorded in _____ with the increase in storage period.
(A) Seed vigour (B) Mobilization efficiency
(C) Reserve food of the seed (D) All the above
149. Natural air flow takes place in the seed dryer based upon the variation of:
(A) Pressure of air (B) Moisture of air
(C) Volume of air (D) Temperature of air
150. At 100 °C temperature the density of dry air at atmospheric pressure is given by:
(A) 0.972 kg/m³ (B) 0.946 kg/m³
(C) 0.899 kg/m³ (D) 0.854 kg/m³

-x-x-x-x-x-x-x-

Key (Code: 4.1)
Post: Senior Branch Officer

Q. No.	Ans.	Q. No.	Ans.	Q. No.	Ans.	Q. No.	Ans.	Q. No.	Ans.
1	A	31	C	61	C	91	D	121	B
2	B	32	B	62	D	92	D	122	C
3	C	33	A	63	B	93	C	123	C
4	D	34	D	64	C	94	B	124	A
5	B	35	B	65	B	95	A	125	C
6	A	36	D	66	B	96	C	126	D
7	A	37	A	67	D	97	B	127	B
8	B	38	C	68	C	98	B	128	D
9	C	39	A	69	C	99	B	129	A
10	A	40	B	70	D	100	D	130	C
11	C	41	B	71	A	101	B	131	A
12	A	42	C	72	D	102	C	132	B
13	D	43	B	73	D	103	C	133	B
14	B	44	A	74	A	104	A	134	C
15	A	45	D	75	D	105	C	135	C
16	C	46	A	76	C	106	B	136	D
17	D	47	B	77	B	107	D	137	C
18	B	48	D	78	D	108	A	138	D
19	B	49	B	79	A	109	A	139	C
20	D	50	B	80	B	110	D	140	C
21	C	51	A	81	C	111	C	141	B
22	D	52	A	82	A	112	C	142	C
23	B	53	D	83	C	113	C	143	A
24	A	54	D	84	C	114	C	144	C
25	C	55	C	85	B	115	C	145	B
26	B	56	B	86	C	116	C	146	C
27	C	57	A	87	D	117	B	147	C
28	D	58	D	88	A	118	B	148	B
29	B	59	D	89	C	119	C	149	C
30	A	60	D	90	B	120	B	150	D