PREVIOUS YEAR PAPER

DSSSB TGT Computer Science 2021 — 7 August 2021, sitting 3

DSSSB TGT · 7 August 2021

148 of the paper's 200 questions · +1 for a correct answer, −0.25 for a wrong one · 120 minutes

Left out of the original paper: 52 (any question that needs a figure, a symbol or formatting we cannot show, or whose text did not read back cleanly from the booklet).

Questions from the Delhi Subordinate Services Selection Board's paper of 7 August 2021. Each question is followed by its answer, and the answer key is repeated on the last page.

Take it as a timed practice test: exambharo.com/dsssb-tgt/previous-year-papers/dsssb-tgt-2021-computer-science-7-aug-3/

General Awareness

1. _____ is located in Telangana.

(a) Khazana Building Museum
(b) Kangra Fort
(c) Shershah Suri's Tomb
(d) Bibi-ka-Maqbara

Answer: (a)

2. Which of the following pair of type – instrument is rect?
I. Tata – Flute
II. Sushir – Table

(a) Only I
(b) Only II
(c) Both I and II
(d) Neither I nor II

Answer: (d)

3. Which of the following statement(s) is/are correct about Direct Taxes?
I. Direct taxes consist of taxes on incomes of individuals.
II. Income tax is one of the direct taxes.

(a) Only I
(b) Only II
(c) Both I and II
(d) Neither I nor II

Answer: (c)

4. During a recession when GDP falls, disposable income _____.
   (a) increases less sharply
   (b) falls less sharply
   (c) becomes constant
   (d) becomes zero
   Answer: (b)

5. _____ fight against germs that may enter our body.
   (a) Red blood cells
   (b) White blood cells
   (c) Platelets
   (d) Hemoglobin
   Answer: (b)

6. The size of pupil is controlled by the _____.
   (a) lens
   (b) iris
   (c) cornea
   (d) retina
   Answer: (b)

7. Which method of separation is used for seperating heavier and lighter components by bowing air?
   (a) Threshing
   (b) Winnowing
   (c) Sieving
   (d) Hand picking
   Answer: (b)

8. Rice needs _____ temperature and _____ humidity.
   (a) low; high
   (b) high; high
   (c) high; low
   (d) low; low
   Answer: (b)

9. Which of the following is correct about insolation?
I. It influences distribution of temperature.
II. It increases from the equator towards the poles.
   (a) Only I
   (b) Only II
   (c) Both I and II
   (d) Neither I nor II
   Answer: (a)

10. Which of the following pair of river – tributary is correct?
I. Krishna – Bhavani
II. Kaveri – Bhima

(a) Only I
(b) Only II
(c) Both I and II
(d) Neither I nor II

Answer: (d)

11. _____ compiled the Puranas and the Mahabharata.

(a) Tulsidas
(b) Kalidas
(c) Vyas
(d) Banabhatta

Answer: (c)

12. Which of the following pair of act – year is correct?
I. Child marriage restraint act – 1929 II. Window remarriage act – 1858

(a) Only I
(b) Only II
(c) Both I and II
(d) Neither I nor II

Answer: (a)

13. Which of the following statement is cor[illegible]?
I. Lord Dalhousie introduced doctrine of lapse.
II. Company took over Awadh in 1856.

(a) Only I
(b) Only II
(c) Both I and II
(d) Neither I nor II

Answer: (c)

14. India launched supply chain resilience initiative in April 2021 with _____.

(a) Russia and Japan
(b) Australia and Japan
(c) Australia and Brazil
(d) Brazil and South Africa

Answer: (b)

15. Which of the following is NOT a member of ASEAN?
    (a) Vietnam
    (b) Fiji
    (c) Singapore
    (d) Cambodia
    Answer: (b)

16. Where are the headquarters of IAEA situated?
    (a) Oslo
    (b) Vienna
    (c) Geneva
    (d) Copenhagen
    Answer: (b)

17. 51st amendment of Indian constitution happened in which year?
    (a) 1973
    (b) 1989
    (c) 1984
    (d) 1969
    Answer: (c)

18. Which article of Indian constitution is related to ur m civil code for citizens?
    (a) 49
    (b) 44
    (c) 46
    (d) 52
    Answer: (b)

19. Which country hosted the 2018 Asian games?
    (a) Indonesia
    (b) Thailand
    (c) Malaysia
    (d) Qatar
    Answer: (a)

20. Who won the Golden Boot award at 2019 FIFA U20 World Cup?
    (a) Erling Haaland
    (b) Lee Kangin
    (c) Andriy Lunin
    (d) Sekou Koita
    Answer: (a)

General Ability

21. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
SJ20, WF42, AB86, ?, IT370

(a) EX174
(b) EX172
(c) FX174
(d) FX172

Answer: (a)

22. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
LXMG, TPUY, ?, JZKI, RRSA

(a) BHDR
(b) BHCQ
(c) BHDQ
(d) BHCR

Answer: (b)

23. In the following question, four letter pairs are given. The letters on left side of (–) is related to the letters on the right side of (–) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) LX – WK
(b) NO – MN
(c) CR – QB
(d) TA – ZS

Answer: (b)

25. In the following question, a group of letters is given. The letters of each group are related with the letters of the same group by some Logic/Rule/Relation. From the given alternatives, select a group of letters which follows the same Logic/Rule/Relation.
(GROB, EKUC, FQNA)

(a) (LAPT, WLDH, KZOS)
(b) (CGND, GJJY, BFMD)
(c) (RFID, GECV, YYHC)
(d) (NEFT, WBHJ, MDEA)

Answer: (a)

26. In a certain code language, 'LACKEY' is written as '121311525', 'LUSTER' is written as '12211920518'. What is the code for 'KIPPER' in that code language?

(a) 1191616518
(b) 1191617520
(c) 1191622522
(d) 1191640532

Answer: (a)

27. Pointing towards a woman in a photograph, Vipin said, "She is the daughter of my son's wife". How is the woman related to Vipin?

(a) Grand daughter

(b) Daughter in law

(c) Daughter

(d) Niece

Answer: (a)

28. Five boxes B1, B2, B3, B4 and B5 are placed one above the other in racks. The lowermost rack is numbered as one and just above the lowermost is numbered as two and so on. Each box is coloured with different colour such as L1, L2, L3, L4 and L5 (not necessarily in the same order). Two boxes are placed between L2 coloured box and L5 coloured box. Box B1 is not placed immediately above box B3. Box B4 is placed in the top most rack. L1 coloured box is placed immediate above L5 coloured box. Box B3 is coloured with L4. L5 coloured box is placed above L4 coloured box. Box B2 is coloured with L1. Which of the following boxes are placed immediately above and immediately below B5 box respectively?

(a) B3 and B2

(b) B4 and B1

(c) B1 and B3

(d) B2 and B3

Answer: (d)

29. Seven boys A, B, C, P, Q, R and S are sitting arou[illegible] circular table facing towards the centre (not necessarily in the same order). S is second to th[illegible]eft of C. P is second to the left of S. Q is not the immediate neighbour of P or S. B is fourth to th[illegible]ght of A.
Which of the following statement is correc[illegible]

(a) B is second to the right of Q.

(b) P is third to the left of C.

(c) A is not the immediate neighbour of P or Q.

(d) B is the immediate neighbour of S and C.

Answer: (d)

30. In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some land are hard.
II. No stone is land.
Conclusions:
I. Some hard are land.
II. Some stone are hard.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Both conclusions I and II follows

(d) Neither conclusion follows

Answer: (a)

31. In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All A are S.
II. No D is A.
Conclusions:
I. Some S are A.
II. All S are D.
III. No A is D.

(a) Both conclusions I and II follows

(b) Only conclusion III follows

(c) Both conclusions I and III follows

(d) All conclusion follows

Answer: (c)

33. If 'A' means '+', 'B' means '–', 'C' means '×' and 'D' means '÷', then which of the following equation is correct?

(a) 9A16D64C32B3 = 14

(b) 26D14C7A9B3 = 20

(c) 8A15D5C11B7 = 35

(d) 6C21D7A9B15 = 10

Answer: (a)

36. In evening, Prema and Radhika were fa[illegible]ea[illegible]other. Radhika's shadow was to the left of Prema. In which direction was Prema facing?

(a) North

(b) South

(c) East

(d) West

Answer: (b)

37. Ramesh is facing towards south direction. He rotates by 140 degrees in clockwise direction. He again rotates by 362 degrees in anti-clockwise direction. In which direction is he facing now?

(a) North-east

(b) West

(c) North-west

(d) East

Answer: (c)

40. Pairs of adjacent sides of a big cube are coloured with red, yellow and brown colour. Now this big cube is divided into 64 small equal cubes.
How many small cubes will have 3 faces painted with different colours?

(a) 0
(b) 6
(c) 2
(d) 8

Answer: (c)

Arithmetic Ability

41. What is the value of 153 ÷ 17 × 8?

(a) 63
(b) 72
(c) 81
(d) 99

Answer: (b)

44. If (9835 × 88A) is divisible by 15, then what is the value of A?

(a) 3
(b) 2
(c) 7
(d) 6

Answer: (b)

45. Highest common factor of three distinct nu[illegible]s is 7 and their least common multiple is 42. If all numbers are less than the least common multiple, then what is the product of these three numbers?

(a) 686
(b) 6174
(c) 4116
(d) 2058

Answer: (d)

46. Marked price of an article is Rs. 4000. Selling price of the article is Rs. 2600. What is the discount percentage?

(a) 35
(b) 25
(c) 20
(d) 30

Answer: (a)

47. What is the value of 24 percent of 35 percent of 6500?

(a) 546
(b) 648
(c) 576
(d) 612

Answer: (a)

48. Income of A is 20 percent more than the income of B and income of B is 30 percent more than the income of C. The income of C is (approximately) how much percentage less than the income of A?

(a) 36
(b) 40
(c) 32
(d) 30

Answer: (a)

49. An article is sold for Rs. 864 at a loss of 28 percent. If it is sold at 20 percent profit, then what will be the selling price?

(a) Rs. 1440
(b) Rs. 1560
(c) Rs. 1380
(d) Rs. 1240

Answer: (a)

50. The sum of two numbers is 66 and their difference is 22. What is the ratio of the two numbers?

(a) 2 : 1
(b) 6 : 5
(c) 17 : 5
(d) 5 : 1

Answer: (a)

51. If (x + y) : (y + z) : (z + x) = 2 : 3 : 4 and (x + y + z) = 27, then what is the value of z?

(a) 10
(b) 17
(c) 15
(d) 12

Answer: (c)

52. A sum of Rs. 1200 becomes Rs. 1560 at a rate of simple interest in 3 years. In how many years will the sum of Rs. 800 amounts to Rs. 1120 at the same rate of simple interest?

(a) 3 years
(b) 4 years
(c) 5 years
(d) 6 years

Answer: (b)

53. The downstream speed of a boat is 20 km/hr and the speed of stream is 4 km/hr. What will be the total time taken by the boat to cover 160 km downstream and 96 km upstream?

(a) 16 hours

(b) 12 hours

(c) 14 hours

(d) 10 hours

Answer: (a)

54. Diameter of wheel of a cycle is 17.5 cm. A cyclist takes 165 minutes to travel a distance with speed of 90 km/hr. How many revolutions will the wheel make during journey?

(a) 450000

(b) 500000

(c) 425000

(d) 525000

Answer: (a)

55. P, Q and R alone can do a work in 12, 18 and 24 days respectively. They worked for 5 days, 4 days and 6 days respectively. They received Rs.
32000. What is the share of Q?

(a) 15000

(b) 8000

(c) 12000

(d) 6000

Answer: (b)

General English

81. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
My son is the most /bravest of all /other men in the city. / No error

(a) My son is the most

(b) bravest of all

(c) other men in the city.

(d) No error

Answer: (a)

82. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
India's forest and tree cover has/increased by nearly 4,000 sq km/for the last assessment report in 2017. /No error

(a) India's forest and tree cover has

(b) increased by nearly 4,000 sq km

(c) for the last assessment report in 2017.

(d) No error

Answer: (c)

85. A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
Mental stress can make a person _____ in many ways.

(a) lunatic

(b) hail

(c) rally

(d) inspirit

Answer: (a)

86. A sentence has been given with a blank to be filled with an appropriate word/words. Choose the correct alternative.
They _____ it difficult to read that book.

(a) founded

(b) find

(c) found

(d) founds

Answer: (c)

87. Rearrange the parts of the sentence in correct order.
The common goals of the Stop TB Partnership P: efforts aimed at preventing and Q: developing a cure for the disease R: of tuberculosis and supporting S: include raising global awareness

(a) PRQS

(b) SRQP

(c) SPQR

(d) SRPQ

Answer: (d)

88. Rearrange the parts of the sentence in the correct order.
P: spite of sometimes anaemic comic book sales Q: has appeared on all manner of merchandise and R: has remained a presence in the pop culture consciousness in S: appealing to a vast demographic, Wonder Woman

(a) RPSQ

(b) PSQR

(c) SQRP

(d) RQPS

Answer: (c)

89. Choose the word that means the same as the given word.
Warning

(a) Caution

(b) Attention

(c) Accuse

(d) Victim

Answer: (a)

90. Choose the word that is opposite in meaning to the given word.
Altercate

(a) Concurrent

(b) Coexist

(c) Nitpick

(d) Contend

Answer: (b)

91. In the given question, four words are given out of which one word is correctly spelt. Choose the correctly spelt word.

(a) Tranmission

(b) Transmession

(c) Trensmission

(d) Transmission

Answer: (d)

92. In the given question, four words are given out of which one word is incorrectly spelt. Choose the incorrectly spelt word.

(a) Assumption

(b) Brightness

(c) Comisson

(d) Gathering

Answer: (c)

93. In the following question, out of the giv four ernatives, select the alternative which best expresses the meaning of the Idiom/Phrase.
Bolt from the blue

(a) A violent thunderstorm

(b) A catastrophic happening

(c) An apparition

(d) A sudden and entirely unforeseen event

Answer: (d)

94. In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.
To raise a dust

(a) To spend extravagantly

(b) To cause commotion

(c) To bring lots of energy in an event

(d) To treat someone indifferently

Answer: (b)

95. Choose the word that can substitute the given sentence.
An act of remembering or telling about past experiences

(a) Reminiscence
(b) Blockade
(c) Indictment
(d) Vengeance

Answer: (a)

97. Which of the following is not one of the key parameters to measure the extent of gender based gap?

(a) Educational attainment
(b) Political empowerment
(c) Economic participation
(d) Labour force

Answer: (d)

99. Identify the nearby antonym of the word 'Alarming'?

(a) Dread
(b) Ghastly
(c) Exonerate
(d) Unwary

Answer: (d)

Discipline1

101. Which of the following is a shortcut key to [illegible] paragraph alignment in MS-Word?

(a) Ctrl + J
(b) Ctrl + I
(c) Ctrl + S
(d) Ctrl + Y

Answer: (a)

102. What is the function of Ctrl + T in MS Word?

(a) Undo last action
(b) Hanging indent
(c) Redo the last action
(d) Justify paragraph alignment

Answer: (b)

103. Perverse Software is also known as _____.

(a) utility software
(b) application software
(c) diagnostic software
(d) malicious software

Answer: (d)

104. Which of the following is the feature(s) of High level programming languages?
I. Portability
II. Easy debugging

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

105. Which of the following are the key feature(s) of cloud computing?
I. Scalability
II. Self service
III. Pay-per-use

(a) I and II

(b) II and III

(c) I and III

(d) I, II and III

Answer: (d)

106. Which of the following is/are the open-source software(s)?
I. PHP
II. Apache

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (b)

107. Which of the following statement(s) is/are true about binary search algorithm?
I. It is implemented on sorted array.
II. One must have direct access to the middle element in any sub-list.
III. It is implemented on sorted linked list.

(a) II and III

(b) I and III

(c) I and II

(d) I, II and III

Answer: (c)

108. 2 Dimensional array (Matrices) with relatively high proportion of zero entries are called _____ while with low proportion of zero entries are called _____.

(a) Regular Matrix; Non-Regular Matrix

(b) Sparse Matrix; Dense Matrix

(c) Transpose Matrix; Inverse Matrix

(d) Square Matrix; Dense Matrix

Answer: (b)

109. Which one is the reserved word in C language?

(a) automatic

(b) integer

(c) Constant

(d) Volatile

Answer: (d)

111. What is the output of the code written in C? void main()
{
int k, val=1;
k= ++val*++val;
printf("%d",k);
}

(a) 1

(b) 4

(c) 9

(d) 16

Answer: (c)

112. The height of a tree is the length of the longest path from root to leaf. What is the maximum and minimum number of nodes in a binary tree of height 'n'?

(a) 2 n + 1 –1, n +1

(b) 2 n – 1 , n – 1

(c) 2 n , n + 1

(d) 2 n – 1 – 1

Answer: (a)

114. _____ mode allows transmission in both directions simultaneously.

(a) Duplex

(b) Half duplex

(c) Simplex

(d) Half simplex

Answer: (a)

115. How many bits are required to represent (1000) in BCD code?
10

(a) 16 bits

(b) 10 bits

(c) 32 bits

(d) 4 bits

Answer: (a)

116. What will be the quotient when (100001) is divided by (110) ?
2 2

(a) (101) 2
(b) (110) 2
(c) (001) 2
(d) (100) 2

Answer: (a)

117. What is the full form of 'The EDVAC', the first generation computer?

(a) The electronic discrete variable automatic computer
(b) The electronic digital variable automatic computer
(c) The electronic discrete variable automatic calculator
(d) The electronic digital variable automatic calculator

Answer: (a)

118. Which generation of computer used transistor?

(a) First
(b) Second
(c) Third
(d) Fourth

Answer: (b)

119. Which of the following statement(s) is/are true about control unit?
I. It manages and coordinate the entire computer system II. It does not perform any actual processing on data

(a) Only I
(b) Only II
(c) Both I and II
(d) Neither I nor II

Answer: (c)

120. Which of the following is a non-positional number system?

(a) Decimal
(b) Roman
(c) Octal
(d) Binary

Answer: (b)

Discipline2

121. 2 resistors of 4 ohm each are connected in series. What is their equivalent resistance?

(a) 2 ohm

(b) 16 ohm

(c) 8 ohm

(d) 4 ohm

Answer: (c)

124. Which of the following pair is correct?
I. RTL – Saturated bipolar logic family II. ECL – Non-Saturated bipolar logic family

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

125. In a multiplexer, the number of input lines is 'n' and the number of select lines is 'm'. Which of the following is correct?

(a) 2 m = n

(b) 2 n = m

(c) 2m = n

(d) 2n = m

Answer: (a)

126. In a JK flip flop, if J = K, then resulting flip flop _____.

(a) SR

(b) Clocked SR

(c) T

(d) D

Answer: (c)

128. Which of the following is an alternative to the log-based recovery schemes in database recovery system?

(a) Shadow paging

(b) Defragmentation

(c) Prepaging

(d) Demand paging

Answer: (a)

130. _____ is a unique identifier created by database management system to identify the relative starting time of a transaction.

(a) Timestamp

(b) Spoofing

(c) Shadow paging

(d) Deadlock

Answer: (a)

131. Which of the following is NOT a variant of time stamp-based method of concurrency control in database management system?

(a) Total time stamp ordering

(b) Partial time stamp ordering

(c) Multi version time stamp ordering

(d) Multilevel time stamp ordering

Answer: (d)

132. _____ describes the process of deciding about putting data to different sites in distributed database system.

(a) Data sharing

(b) Data allocation

(c) Data storing

(d) Data mining

Answer: (b)

133. _____ is a technique of breaking up database into logical units, which may be assigned for storage at the various sites in distributed database system.

(a) Data normalization

(b) Data mining

(c) Data binding

(d) Data fragmentation

Answer: (d)

134. Which of the following is a Compariso[illegible]nera[illegible]n Structured Query Language?

(a) +

(b) *

(c) /

(d) >=

Answer: (d)

135. Which logical gate is used to represent product of sum expression?

(a) EX-OR gate

(b) AND gate

(c) OR gate

(d) NOR gate

Answer: (d)

136. In D flip-flop, if D = 1, then the output of the D flip-flop is _____, but if D = 0, then the output of D flip-flop goes to _____ state.

(a) 0; 1

(b) 1; 0

(c) 0; 0

(d) 1; 1

Answer: (b)

138. By how many different ways micro-operation encountered in digital computers are classified?

(a) One
(b) Two
(c) Three
(d) Four

Answer: (d)

139. How many bits are required to distinguish between a direct and an indirect address?

(a) 1
(b) 2
(c) 3
(d) 4

Answer: (a)

140. Which of the following statement(s) is/are true about wire framing of website?
I. Showing which content will appear on which page II. Showing navigator between pages

(a) Only I
(b) Only II
(c) Both I and II
(d) Neither I nor II

Answer: (c)

Discipline3

141. What is the full form of MTTF in softw[illegible]lia[illegible]y?

(a) Minimum time to failure
(b) Maximum time to failure
(c) Mean time to failure
(d) Median time to failure

Answer: (c)

142. What is the other name of Linear Sequential model in software engineering?

(a) Spiral model
(b) Waterfall model
(c) Prototype model
(d) RAD model

Answer: (b)

143. _____ model is a “high speed” adaption of the linear sequential model in software engineering.

(a) Prototype model
(b) Rapid Application development model
(c) Spiral model
(d) Waterfall model

Answer: (b)

144. Which of the following is not a project estimation technique in software engineering?

(a) Empirical techniques

(b) Heuristic techniques

(c) Analytical techniques

(d) Prototyping techniques

Answer: (d)

145. Which of the following statement(s) is/are true regarding PERT chart in software project management?
I. PERT charts consists of a network of boxes and arrows.
II. In PERT chart, the boxes represent activities and the arrow represents task dependencies.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

147. What is COHESION in software design?

(a) Cohesion is a measure of complexity of module of a software

(b) Cohesion is a measure of functional strength of a module of a software

(c) Cohesion is a measure of functional weakness of a module of a software

(d) Cohesion is a measure of efficiency of a module of a software

Answer: (b)

148. Which of the following is/are correct about java programming?
I. All functions in java must be members of some class II. Member functions are called methods in java

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

149. What is the output of the following java code? int m = 1000;
int k = 3000;
while (+ + m < – – k);
System.out.println(m);

(a) Error

(b) 1000

(c) 2000

(d) 4000

Answer: (c)

150. The time required to wait until Read/Write head comes under a desired sector is known as _____.

(a) Seek time
(b) Execution time
(c) Wait time
(d) Rotational delay

Answer: (d)

151. _____ is used to transfer the data directly to main memory without using CPU.

(a) Device driver
(b) Input/Output interface
(c) DMA controller
(d) Memory Address Register

Answer: (c)

152. A computer system has 7 tape drives. There are 'n' processes competing for them. Each process may need 2 tape drives. What is the maximum value of 'n' for which the system is guaranteed to be deadlock free?

(a) 2
(b) 3
(c) 4
(d) 1

Answer: (b)

153. A 500 kbyte memory is managed usin[illegible]riab[illegible] memory partitions and are allowed for compaction. It is currently using 2 partitions [illegible] 100 kbytes and 130kbytes respectively. The smallest allocation request in kbytes that could be denied is for _____.

(a) 250
(b) 270
(c) 271
(d) 170

Answer: (c)

154. Which principles are used in digitization of multimedia content?
I. Sampling
II. Quantization

(a) Only I
(b) Only II
(c) Both I and II
(d) Neither I nor II

Answer: (c)

155. _____ is used to reduce the size of multimedia files.

(a) Data compression

(b) Data coupling

(c) Data handling

(d) Data dependency

Answer: (a)

157. ARQ (Automatic Repeat Request) is:

(a) asking question and getting the reply

(b) protocol in which the sends for positive acknowledgement before advancing to the next data item

(c) protocol allows a newly booted workstation to broadcast its Ethernet address

(d) protocol allows both manual IP address assign infant and automatic assignment

Answer: (b)

158. Which of the following is not an example of unguided transmission media?

(a) Radio transmission

(b) Microwave transmission

(c) Coaxial cable

(d) Light transmission

Answer: (c)

159. What is the full form of WDMA protocol?

(a) Wide Division Multiple Access Protocol

(b) Wide Digital Multiple Access Protoc

(c) Wavelength Digital Multiple Access Protoc

(d) Wavelength Division Multiple Access Protocol

Answer: (d)

Discipline4

161. _____ gives the location of a resouce on the internet.

(a) URL

(b) TCP/IP

(c) Domain name

(d) IP address

Answer: (a)

162. _____ is a set of rules that governs how two computer system interact.

(a) Syntax

(b) Rules

(c) Protocol

(d) Grammar

Answer: (c)

163. _____ is a CPU independent machine language style instruction set into which .NET Framework program are compiled.

(a) Machine language
(b) High level language
(c) Intermediate language
(d) Assembly language

Answer: (c)

164. _____ is a symbol used to represent special files in Linux OS.

(a) d
(b) e
(c) c
(d) s

Answer: (c)

165. Which of the following is NOT the correct characteristic of Security Socket Layer (SSL)?

(a) It requires a server certificate.
(b) It operates at TCP/IP transport layer.
(c) It uses a dedicated TCP/IP socket.
(d) It operates between the network and transport layer.

Answer: (d)

166. Which of the following statement(s) is/are corre egarding m-commerce?
I. Mobile security is one of the prominent impedime of m-commerce.
II. M-commerce reduces overall transactio st t ugh streamlined business processes.
III. Mobile coupons and mobile ticket delivery commerce services.

(a) I and II
(b) II and III
(c) I, II and III
(d) Only III

Answer: (c)

167. Which of the following is not the collision resolution technique of hashing?

(a) Double hashing
(b) Quadratic probing
(c) Chaining
(d) Folding

Answer: (d)

168. Which of the following is stable sort?

(a) Selection sort
(b) Quick sort
(c) Heap sort
(d) Merge sort

Answer: (d)

169. Post-order Binary tree traversal is _____.

(a) Left, Node, Right

(b) Left, Right, Node

(c) Node, Left, Right

(d) Right, Left, Node

Answer: (b)

171. Consider a max heap, represented by the array 400, 300, 200, 100, 150, 160, 170, 80, 40. What will be the new heap after insertion of 350?

(a) 400, 300, 200, 100, 150, 160, 170, 80, 40, 350

(b) 400, 350, 200, 100, 300, 160, 170, 80, 40, 150

(c) 400, 300, 200, 100, 350, 160, 170, 80, 40, 150

(d) 400, 350, 200, 100, 150, 160, 170, 80, 40, 300

Answer: (b)

173. Which of the following is a component of Management Information System (MIS)?

(a) External database

(b) Knowledge engine

(c) Data entry

(d) Inquiry processing

Answer: (a)

174. Which of the following statement(s) is/are corre[illegible]egarding On-Line Transaction Processing (OLTP)?
I. Responses to the user inquiry are immed[illegible]
II. The associated cost is economical with e[illegible]ilization of resources.
III. The database is always up-to-date.

(a) Only II

(b) I and III

(c) Only III

(d) I and II

Answer: (b)

175. What is the full form of GSM is mobile computing?

(a) Global Systems for mobile communication

(b) Global Scientific mobile computing

(c) Global Services for mobile computing

(d) Global Signalling for mobile computing

Answer: (a)

176. Extension of bootstrap protocol is known as _____.

(a) Dynamic Host Configuration Protocol

(b) Direct Host Configuration Protocol

(c) Dynamic Source Routing Protocol

(d) Direct Source Routing Protocol

Answer: (a)

177. Which component of CRT regulate the intensity of electron beam?

(a) Heating Filament

(b) Accelerating Anode

(c) Focusing Anode

(d) Control Grid

Answer: (d)

178. If an image has a width of 4 inch and an aspect ratio of 3 : 2, then what is its height?

(a) 4/3 inch

(b) 8/3 inch

(c) 2/3 inch

(d) 16/3 inch

Answer: (b)

179. Rearrange steps involved in two dimensional viewing transformation.
I. Map normalized viewport to device Co-ordinates
II. Convert world co-ordinate to viewing co-ordinate
III. Construct world – co-ordinate scene using modelling coordinate transformation IV. Map viewing co-ordinates to normalized viewing co-ordinating window-viewport specification

(a) III → II → IV → I

(b) II → III → IV → I

(c) I → II → IV → III

(d) III → II → I → IV

Answer: (a)

180. _____ lets users to show their location with websites they trust.

(a) Geolocation

(b) Geotrust

(c) Loctrust

(d) OLTrust

Answer: (a)

Discipline5

181. _____ URL is used to send electronic mail.

(a) Mailto

(b) Eto

(c) Email UR

(d) EURL

Answer: (a)

182. The two-dimensional perspective of knowledge management includes which of the following element(s)?
I. Strategy
II. Content

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

183. When contacting a large number of people for some information, which of the following methods of data collection is considered to be convenient?

(a) Personal Observation

(b) Questionnaires

(c) Interview

(d) Official Records

Answer: (b)

184. Efficiency of an algorithm is measured in terms of _____.

(a) Memory and processor speed

(b) Time and space

(c) Response time and completion time

(d) Data and space

Answer: (b)

185. If loop does not terminate at all and keeps on executing endlessly, then it is known as _____.

(a) for loop

(b) finite loop

(c) white loop

(d) infinite loop

Answer: (d)

186. Which of the following statement(s) is/are true about Algorithm?
I. It is step by step solution of problem
II. It is difficult to debug
III. It is not dependent on the programming language

(a) I and II

(b) II and III

(c) I and III

(d) I, II and III

Answer: (c)

187. If the probability of winning a match is 0.7, then what is the value of variance?

(a) 0.7

(b) 0.3

(c) 0.21

(d) 0.31

Answer: (c)

188. 20 percent of the pens produced in a factory are of red colour and 4 percent are red and defective. If one pen is picked up at random, then what is the probability of its being defective if it is red?

(a) 0.2

(b) 0.4

(c) 0.6

(d) 0.8

Answer: (a)

191. As per National Curriculum Framework (2005), which of the following statement(s) is/are NOT correct about subject – centered approach?
I. Text book is the only source and main source for the teacher.
II. Insistence on the students to memorise the facts by repeated reading.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (d)

192. Which of the following are those teaching learning materials that are prepared by teachers and students in most of the schools?
I. Graphs
II. Number and alphabet cards
III. Flash cards on different themes

(a) II and III

(b) I and II

(c) I and IV

(d) I, II and III

Answer: (d)

193. When we gather new experiences while assessing our own performance or performance of others, then the processes of learning and assessment lose the line of demarcation between them. In such instances assessment becomes a _____ process.

(a) learning

(b) reading

(c) speaking

(d) teaching

Answer: (a)

194. In contrast to other approaches to assessment of learning, assessment as learning is entirely _____ controlled.
I. student
II. Teacher

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (a)

195. Which of the following is/are the component(s) of Lesson Plan?
I. What to teach
II. Who to teach
III. How to teach

(a) I, II and III

(b) II and III

(c) Only III

(d) I and II

Answer: (a)

196. Which of the following statement(s) is/are correct?
I. Multilinguality is an integral part of the Indian linguistic heritage.
II. The culture and attitude towards language has a prominent role to play in a country being monolingual or multilingual.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

197. While working with clay, which of the following precaution(s) needs to be taken?
I. Using too much water will make the clay weak and later cracks will develop in the slabs.
II. Children should maintain cleanliness and hygiene while working with clay.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

198. The basics of all performing arts is _____.
I. Exploring
II. Expressing
III. Listening

(a) I, II and III

(b) II and III

(c) Only II

(d) I and II

Answer: (a)

199. Which of the following statement(s) is/are correct?
I. Discrimination disregards individual need, merit and potential.
II. Providing separate toilets for boys and girls does not tantamount to discrimination.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

200. Which article of Indian Constitution empowered the state to make special provisions for the welfare of the women and children?

(a) Article 15(3)

(b) Article 45

(c) Article 2

(d) Article 11(2)

Answer: (a)

Answer key

Answer key from the Delhi Subordinate Services Selection Board's official answer key for this sitting. "—" means the key gave none.

General Awareness

1	**(a)**	2	**(d)**	3	**(c)**	4	**(b)**	5	**(b)**	6	**(b)**	7	**(b)**	8	**(b)**
9	**(a)**	10	**(d)**	11	**(c)**	12	**(a)**	13	**(c)**	14	**(b)**	15	**(b)**	16	**(b)**
17	**(c)**	18	**(b)**	19	**(a)**	20	**(a)**								

General Ability

21	**(a)**	22	**(b)**	23	**(b)**	25	**(a)**	26	**(a)**	27	**(a)**	28	**(d)**	29	**(d)**
30	**(a)**	31	**(c)**	33	**(a)**	36	**(b)**	37	**(c)**	40	**(c)**				

Arithmetic Ability

41	**(b)**	44	**(b)**	45	**(d)**	46	**(a)**	47	**(a)**	48	**(a)**	49	**(a)**	50	**(a)**
51	**(c)**	52	**(b)**	53	**(a)**	54	**(a)**	55	**(b)**						

General English

81	**(a)**	82	**(c)**	85	**(a)**	86	**(c)**	87	**(d)**	88	**(c)**	89	**(a)**	90	**(b)**
91	**(d)**	92	**(c)**	93	**(d)**	94	**(b)**	95	**(a)**	97	**(d)**	99	**(d)**		

Discipline1

101	**(a)**	102	**(b)**	103	**(d)**	104	**(c)**	[illegible]	**(d)**	106	**(b)**	107	**(c)**	108	**(b)**
109	**(d)**	111	**(c)**	112	**(a)**	114	[illegible]	5	**(a)**	116	**(a)**	117	**(a)**	118	**(b)**
119	**(c)**	120	**(b)**												

Discipline2

121	**(c)**	124	**(c)**	125	**(a)**	126	**(c)**	128	**(a)**	130	**(a)**	131	**(d)**	132	**(b)**
133	**(d)**	134	**(d)**	135	**(d)**	136	**(b)**	138	**(d)**	139	**(a)**	140	**(c)**		

Discipline3

141	**(c)**	142	**(b)**	143	**(b)**	144	**(d)**	145	**(c)**	147	**(b)**	148	**(c)**	149	**(c)**
150	**(d)**	151	**(c)**	152	**(b)**	153	**(c)**	154	**(c)**	155	**(a)**	157	**(b)**	158	**(c)**
159	**(d)**														

Discipline4

161	**(a)**	162	**(c)**	163	**(c)**	164	**(c)**	165	**(d)**	166	**(c)**	167	**(d)**	168	**(d)**
169	**(b)**	171	**(b)**	173	**(a)**	174	**(b)**	175	**(a)**	176	**(a)**	177	**(d)**	178	**(b)**
179	**(a)**	180	**(a)**												

Discipline5

181	**(a)**	182	**(c)**	183	**(b)**	184	**(b)**	185	**(d)**	186	**(c)**	187	**(c)**	188	**(a)**
191	**(d)**	192	**(d)**	193	**(a)**	194	**(a)**	195	**(a)**	196	**(c)**	197	**(c)**	198	**(a)**
199	**(c)**	200	**(a)**												