PREVIOUS YEAR PAPER

# DSSSB TGT Computer Science 2021 — 1 August 2021, sitting 1

DSSSB TGT · 1 August 2021

141 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: 59 (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 1 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-1-aug-1/

## General Awareness

1. Which of the following is a Sushira Vadya?

(a) Damru
(b) Sitar
(c) Table
(d) Flute

**Answer: (d)**

2. Which of the following pair of vadya – type is corr
I. Tata – Wind
II. Avanddha – Stringed

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

**Answer: (d)**

3. Reserve ratio can also be called _____.

(a) Cash Reserve Ratio
(b) Cash Ratio
(c) Liquid Reserve Ratio
(d) Required Ratio

**Answer: (a)**

4. What is the ratio of the stock of money to the stock of high powered money in an economy called?

(a) Money multiplier
(b) Money exchange
(c) Money credit
(d) Money supply

**Answer: (a)**

5. Which base is found in window cleaner?

(a) Calcium Hydroxide

(b) Potassium Hydroxide

(c) Sodium Hydroxide

(d) Ammonium Hydroxide

**Answer: (d)**

6. Which of the following happens due to atmospheric refraction?
I. Twinkling of stars
II. Advanced sunrise and delayed sunset

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

7. Which organism causes rust of wheat?

(a) Bacteria

(b) Protozoa

(c) Virus

(d) Fungi

**Answer: (d)**

8. Which of the following regarding earthquake is c ect?
I. P waves – Longitudinal
II. S waves – Transverse

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

9. Which of the following metal deposits are found in Asia?
I. Manganese
II. Bauxite
III. Nickel

(a) I and II

(b) II and III

(c) I and III

(d) I, II and III

**Answer: (d)**

10. Which of the following pair of river – flow direction is correct?
I. Tapi – West
II. Narmada – East

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

**Answer: (a)**

11. In _____, Gandhiji organised a satyagraha to support peasants of Kheda district.

(a) 1919
(b) 1921
(c) 1917
(d) 1920

**Answer: (c)**

12. In which harappan city was cotton grown?

(a) Kalibangan
(b) Lothal
(c) Rakhigadi
(d) Mehrgarh

**Answer: (d)**

13. Which of the following statement(s) regarding T Mohammedan Anglo Oriental college is/are correct?
I. It was founded by Sayyid Ahmed Khan.
II. It was established in 1875.

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

**Answer: (c)**

14. The second edition of the Khelo India Winter Games began at Gulmarg on _____ 2021.

(a) February 21
(b) February 26
(c) January 30
(d) February 5

**Answer: (b)**

15. Which organisation releases the World Economic Outlook report?

(a) IMF

(b) World Bank

(c) ADB

(d) International Economic Association

**Answer: (a)**

16. The headquarters of International Labour Organisation are situated in _____.

(a) Paris

(b) Madrid

(c) Geneva

(d) New York

**Answer: (c)**

17. Which of the following pair of article – contents of Indian constitution is correct?
I. 239 – Administration of Union territories
II. 241 – Special provisions with respect to Delhi

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (a)**

18. Which article of Indian constitution is related to ation of Panchayats?

(a) 243A

(b) 243E

(c) 243K

(d) 243O

**Answer: (b)**

19. Which city hosted the 2018 commonwealth games?

(a) Sydney

(b) Gold Coast

(c) Melbourne

(d) Canberra

**Answer: (b)**

20. Which of the following pair of sportsperson – sports is correct?
I. Rory McIlroy – Golf
II. Martina Hingis – Tennis

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

## General Ability

21. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
GRZ, KWV, OBR, SGN, ?

(a) WMJ
(b) WLJ
(c) XLJ
(d) XMJ

**Answer: (b)**

22. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
TONY, WTGP, ZYZG, ?, FILO

(a) CESX
(b) CDSY
(c) CESY
(d) CDSX

**Answer: (d)**

23. In the following question, select the odd word from the given alternatives.

(a) Shirt
(b) Trouser
(c) Jacket
(d) Male

**Answer: (d)**

24. In the following question, select the related letters from the given alternatives.
KOM : LPN :: TIP : ?

(a) UJQ
(b) VJQ
(c) UHQ
(d) VHQ

**Answer: (a)**

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.
(TOPX, ZVXG, FCFP)

(a) (AJNP, GQVY, MXEH)
(b) (KQRN, QXZW, WEHF)
(c) (LPCR, RWKZ, XDSI)
(d) (TGPA, ZNXJ, EUFS)

**Answer: (b)**

26. In a certain code language, 'I think I can' is written as '6 8 6 4', 'We can think about' is written as '5 4 8 9'. What is the code for 'think, can' in that code language?

(a) 8 4

(b) 6 9

(c) 8 5

(d) 6 4

**Answer: (a)**

27. Eight friends P, Q, R, S, T U, V and W are sitting around a circular table facing towards the centre (not necessarily in the same order). T is third to the left of V. V is to the immediate right of Q. Q is third to the left of P. W is second to the right of U. U is not the immediate neighbour of T. S is not the immediate neighbour of Q.Who is second to the right of P?

(a) S

(b) V

(c) T

(d) Q

**Answer: (a)**

29. 6 teachers P, Q, R, S, T and U have to present lectures. Each teacher will present a lecture on one day from Monday to Saturday. Each teacher presents on different day. There are 3 male and 3 female teachers. Each male is married to one of the females. More than 2 people present between T and U. R presents on Friday but his wife does not pres ts on Monday. P presents on the next day of S. Two people present between P and U. P's wife p ents on next day of P. Gender of T and U is same. Which of the following statement is NOT corr

(a) Q is a female teacher and her husband pres s on Wednesday

(b) R and U are married couples

(c) S's wife presents on Monday

(d) Two lectures are presented between Q and S

**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 M are B.
II. No L is M.
Conclusions:
I. No L is B.
II. No M is L.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Both conclusions I and II follows

(d) Neither conclusion follows

**Answer: (b)**

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 honey are chair
II. No white is honey.
Conclusiosn:
I. Some chair are not white.
II. Some honey are not white.
III. Some chair are honey.

(a) Both conclusions II and III follows

(b) Only conclusion I follows

(c) Both conclusions I and II follows

(d) All conclusion follows

**Answer: (d)**

32. In the following question, select the missing number from the given series.
8, 31, 123, ?, 1963

(a) 491

(b) 481

(c) 471

(d) 461

**Answer: (a)**

33. By Interchanging the given two numbe hich the following equation will be incorrect?
5 and 2

(a) 2 + 8 × 7 ÷ 4 – 5 = 17

(b) 8 + 6 × 2 ÷ 5 – 4 = 19

(c) 6 + 8 × 2 ÷ 4 – 5 = 14

(d) 5 + 2 × 6 ÷ 4 – 1 = 7

**Answer: (d)**

37. Ramesh is facing towards west direction. He walks 20 km and then rotates by 90 degrees in clockwise direction. He again rotates by 295 degrees in anticlockwise direction. In which direction is he facing now?

(a) North-east

(b) East

(c) South-east

(d) North-west

**Answer: (a)**

## Arithmetic Ability

43. What is the value of 15 × 15 × 15 + 64 + 3 × 60 × 19?

(a) 6859
(b) 6779
(c) 6879
(d) 6869

**Answer: (a)**

45. The Highest Common Factor of two numbers is (2/5)th of their Least Common Multiple. If the product of two numbers is 1690, then what is their Highest Common Factor?

(a) 35
(b) 65
(c) 26
(d) 53

**Answer: (c)**

46. If 42a + 42b = 672, then what is the average of a and b?

(a) 6
(b) 8
(c) 7
(d) 9

**Answer: (b)**

47. If P = 9A and Q = 7A, then P is how much percent more than Q?

(a) 28.56
(b) 40
(c) 22.22
(d) 33.33

**Answer: (a)**

48. If the difference between the two numbers is 75 percent of their sum, then what is the ratio of larger number and smaller number?

(a) 7 : 2
(b) 5 : 2
(c) 7 : 1
(d) 7 : 3

**Answer: (c)**

49. Cost price and selling price of an article are in ratio of 11 : 16. If cost price is increased by 20 percent and selling price is increased by 20 percent, then what is the new profit percentage?

(a) 52.24
(b) 45.45
(c) 37.43
(d) 61.86

**Answer: (b)**

52. The simple interest received on a certain sum is Rs. 1280 for 4 years. What will be the simple interest on the same at the same rate of interest for 10 years?

(a) Rs. 3100
(b) Rs. 3230
(c) Rs. 3600
(d) Rs. 3200

**Answer: (d)**

53. A bus covers a distance of 30 km in 36 minutes. If its speed is decreased by 10 km/hr, then what will be the time taken by it to cover the same distance?

(a) 75 minutes
(b) 30 minutes
(c) 60 minutes
(d) 45 minutes

**Answer: (d)**

54. Which of the following statement is correct?
I. A boat travels 84 km downstream and 42 km upstream. If speed of boat and speed of stream are 6 km/hr and 2 km/hr respectively, then total time taken is 20 hours.
II. Length of a platform is 1200 meters. If a 600 meter long train can cross it in 30 seconds, then speed of train is 54 km/hr.

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

**Answer: (d)**

55. 10 men can do a work in 15 days working 4 hours a day. If after 5 days, 4 men leave the work, then remaining work can be done in how many days?

(a) 50/3
(b) 20
(c) 53/3
(d) 18

**Answer: (a)**

## General English

81. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
She got fed up (1)/ of the awful behavior (2)/ of her cousins. (3)/ No error (4)

(a) She got fed up
(b) of the awful behavior
(c) of her cousins.
(d) No error

**Answer: (b)**

82. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
Women in India are much more (1)/ educated and are also at par of (2)/ the men in almost all fields. (3)/ No error (4)

(a) Women in India are much more

(b) educated and are also at par of

(c) the men in almost all fields.

(d) No error

**Answer: (b)**

85. A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
Inspite of, the great efforts she failed to _____ her exam.

(a) move

(b) create

(c) pass

(d) make

**Answer: (c)**

86. A sentence has been given with a blank to be filled with an appropriate word/words. Choose the correct alternative.
Neither her parents _____ her husband wants to meet her.

(a) not

(b) or

(c) nor

(d) and

**Answer: (c)**

87. Rearrange the parts of the sentence in correct order.
Among the diseases of the coffee shrub
P: are leaf rust caused by the fungus Hemileia vastatrix, which Q: which also attacks the Arabica
R: does considerable damage in the plantations of Arabica, S: and the coffee berry disease caused by the fungus Colletotrichum coffeanum,

(a) RQPS

(b) PRSQ

(c) RPQS

(d) RQSP

**Answer: (b)**

88. Rearrange the parts of the sentence in the correct order.
P: woman who often spoke about the power of Q: womanhood and the need for female solidarity R: female readers liked the Wonder Woman S: series because it presented a strong and confident

(a) RSPQ

(b) QRPS

(c) QRSP

(d) PSRQ

**Answer: (a)**

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

(a) Entertain
(b) Gainsay
(c) Emend
(d) Passion

**Answer: (d)**

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

(a) Paradox
(b) Paradigm
(c) Norm
(d) Character

**Answer: (c)**

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

(a) Rasponsive
(b) Responsive
(c) Reasponsive
(d) Responseve

**Answer: (b)**

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

(a) Brethless
(b) Technology
(c) Modulation
(d) Economics

**Answer: (a)**

93. In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.
To break the ice

(a) To unfreeze something
(b) To make an end
(c) The last option
(d) To overcome reserve

**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 kick up one's heels

(a) To die suddenly
(b) To enjoy oneself
(c) To restrain someone
(d) To win a competition

**Answer: (b)**

95. Choose the word that can substitute the given sentence.
Killing of a god

(a) Matricide
(b) Deicide
(c) Sororicide
(d) Regicide

**Answer: (b)**

97. What will happen if we add low-quality crop residues to agricultural field?

(a) It will create more mineral associated organic matter than particulate organic matter.
(b) It will create more particulate organic matter than mineral based organic matter in the soil.
(c) It will help the soil to sequester more carbon in the atmosphere.
(d) It will help the high diversity crops to grow bet

**Answer: (b)**

98. What is the synonym of the word 'boos

(a) Placate
(b) Inhibit
(c) Bolster
(d) Shackle

**Answer: (c)**

## Discipline1

104. A partner who just lends his name to the partnership firm is known as a _____.

(a) Limited Partner
(b) Nominal Partner
(c) Sleeping Partner
(d) General Partner

**Answer: (b)**

105. Due to which property a computer can work for hours without creating any error and without grumbling?

(a) No I.Q
(b) Versatility
(c) Diligence
(d) Speed

**Answer: (c)**

106. 1 picoseconds = _____

(a) 10 –9 seconds
(b) 10 –12 seconds
(c) 10 –15 seconds
(d) 10 –18 seconds

**Answer: (b)**

108. Which of the following statement is/are correct?
I. The largest four digit number in base 7 is 7777.
II. The smallest four digit number in base 8 is 1111.

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

**Answer: (d)**

109. _____ is a controlled electronic switch fabricated using a semiconductor.

(a) Transistor
(b) Hard-disk
(c) Monitor
(d) Coupler

**Answer: (a)**

110. _____ is a system software package that converts a high level language program to machine language.

(a) Compiler
(b) Emulator
(c) Editor
(d) Debugger

**Answer: (a)**

111. What is the maximum running time of binary search algorithm, when n = 12,000?

(a) 12
(b) 13
(c) 14
(d) 15

**Answer: (c)**

113. Which statements is correct regarding main () function in C++?
I. It is a user defined function.
II. It is a pre-defined function.

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

**Answer: (a)**

114. Which inbuilt function in C is used to read string from system console?

(a) puts ()
(b) cgets ()
(c) getche ()
(d) getchar ()

**Answer: (b)**

115. What is the output of the following code written in C? void main()
{
printf("%d%d%d",62,062,0x62); }

(a) 506298
(b) 629850
(c) 625098
(d) 986250

**Answer: (c)**

116. How many interchanges will happen when sequence of letters of "SORTED" is sorted using bubble sort?

(a) 36
(b) 11
(c) 18
(d) 6

**Answer: (b)**

118. Consider the following segment of C++ code.
int j, n;
for(j=1;j<=n; )
j=j*2;
What is the number of comparisons made in the execution of the loop for any n > 0?

(a) n + 1
(b) (n + 1)/2
(c) log (n + 1) 2
(d) log n + 1 2

**Answer: (d)**

119. _____ is used for management, maintenance and retrieval of the data stored in the database.

(a) Operating System

(b) Database Management System

(c) System Software

(d) Processing Software

**Answer: (b)**

120. Which of the following statement(s) is/are correct?
I. Metropolitan area network is a collection of Local area network II. Metropolitan area network support both data and voices transmission

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

## Discipline2

121. _____ is a device that combines a large number of low speed transmission lines into a high speed line.

(a) Multiplexer

(b) Demultiplexer

(c) Repeater

(d) Switch

**Answer: (a)**

122. Which of the following is a type of network topology?
I. Star topology
II. Bus topology
III. Car topology

(a) I and II

(b) I and III

(c) II and III

(d) I, II and III

**Answer: (a)**

123. Which of the following is a type of transmission mode?
I. Simplex mode
II. Half simplex mode
III. Duplex mode

(a) I and II

(b) II and III

(c) I and III

(d) I, II and III

**Answer: (c)**

124. Which one of the following is an impact printer?

(a) Inkjet printer

(b) Dot-matrix printer

(c) Laser printer

(d) Thermal printer

**Answer: (b)**

126. The ability to input data directly into a computer system by speaking to it is known as _____.

(a) speech recognition

(b) speaker recognition

(c) speaker identification

(d) speech enhancement

**Answer: (a)**

127. According to _____ law, the force between two charges is directly proportional to the product of theirs charges.

(a) Coulomb's

(b) Gauss's

(c) Kirchoff's

(d) Ohm's

**Answer: (a)**

129. How many NOR gates are used to get AND gate m them?

(a) 1

(b) 3

(c) 2

(d) 4

**Answer: (b)**

130. A railway crossing has 4 railway tracks. If a train comes on atleast 1 of the tracks, the crossing has to be closed. Which gate can be used to implement this?

(a) NAND

(b) NOR

(c) OR

(d) AND

**Answer: (c)**

132. Which of the following pair is/are correct?
I. Astable multivibrator – Flip Flop II. Bistable multivibrator – Free running

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (d)**

133. Which of the following is an advantage of use of multiplexers?
I. Logic design is simplified
II. Minimizes IC package count
III. Simplification of logic expression is not required

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

**Answer: (d)**

135. Which of the following is not a key attribute of information?

(a) Accuracy
(b) Timeliness
(c) Relevancy
(d) Isolation

**Answer: (d)**

136. What is the full form of DASD in database management system?

(a) Direct Access Storage Device
(b) Dynamic Access Storage Device
(c) Digital Access Storage Device
(d) Disk Access Storage Device

**Answer: (a)**

137. Which of the following statement is/are correct regarding sequential file organization?
I. Entire file must be read for new record insertion and record deletion II. On an average, half of the records in the file must be processed to find the location of a record

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

**Answer: (c)**

138. When data is frequently added to or deleted from a file, the volatility of the file is _____.

(a) low
(b) moderate
(c) high
(d) zero

**Answer: (c)**

139. The values of the attributes in a database describe a particular _____.

(a) Entity

(b) Tuple

(c) Field

(d) View

**Answer: (a)**

140. Which of the following is NOT a Structured Query Language Data type?

(a) REAL

(b) INTERVAL

(c) TIME STAMP

(d) BASE

**Answer: (d)**

## Discipline3

141. The input-output relationship of the binary variable for each gate can be represented in tabular form by a _____.

(a) symbol table

(b) decision table

(c) truth table

(d) characteristic table

**Answer: (c)**

142. Which statement(s) is/are correct regarding the Boolean algebra?
I. It facilitate the analysis and design of digital circuits.
II. Expresses in algebraic form the input-output relationship of logic diagram.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

145. In java script a _____ function can be defined as a function passed into another function as a parameter.

(a) call front

(b) call back

(c) roll back

(d) roll front

**Answer: (b)**

146. What is AJAX in ASP.NET?

(a) Asynchronous java script and XML

(b) Associated java script and XML

(c) Asynchronous java script and HTML

(d) Associated java script and HTML

**Answer: (a)**

147. Which of the following is/are correct regarding accounting process?
I. A provision is a charge against profit
II. Reserve is an appropriation of profit

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

148. Which of the following is/are correct?
I. All permanent accounts are balanced and carried forward to the next accounting period.
II. The temporary accounts are closed at the end of the accounting period.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

149. What is the other name of White-box test

(a) Red-box testing

(b) Glass-box testing

(c) Open-box testing

(d) Close-box testing

**Answer: (b)**

150. What is the full form of SQA in software engineering?

(a) Software Quality Activity

(b) System Quality Assurance

(c) Service Quality Activity

(d) Software Quality Assurance

**Answer: (d)**

151. In _____ model, software is developed in a series of incremental releases.
I. Spiral
II. Sequential

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (a)**

152. A module of a software is said to be logically cohesive if _____.

(a) all the elements of the module perform similar operations like error handling, data input etc

(b) different elements of the module cooperate to achieve a single function for example managing an employee's pay roll

(c) if the set of functions of the module are all part of a procedure

(d) all the elements of the module performs different operations alternatively

**Answer: (a)**

153. Two modules are said to be common coupled in software design if _____.

(a) they share their code

(b) they share same global data areas

(c) they communicate via a composite data

(d) they communicate through an elementary data item

**Answer: (b)**

154. Which of the following statement(s) is/are correct regarding software project management?
I. PERT charts can be derived automatically from Gantt charts.
II. Gantt charts cannot be automatically derived from PERT charts.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (d)**

155. JAVA compiler translates source code into _____.

(a) symbolic code

(b) assembly code

(c) byte code

(d) high language code

**Answer: (c)**

156. Which of the following statement(s) is/are correct regarding java programming?
I. Place a semicolon immediately after a method header II. Define a method outside the braces of a class definition

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

**Answer: (d)**

158. Which page replacement algorithm has Belady's anomaly?

(a) Optimal page replacement
(b) FIFO page replacement
(c) Least recent used page replacement
(d) Not recently used page replacement

**Answer: (b)**

159. When there is a memory wastage within the memory partition itself then it known as _____.

(a) External fragmentation
(b) Belady's Anomaly
(c) Internal fragmentation
(d) Compaction

**Answer: (c)**

160. If a memory partition of size 80k is allocated to process of size 60k then the 20k of the partition is wasted and cannot be allocated any process. It is called _____.

(a) external fragmentation
(b) best fit
(c) worst fit
(d) internal fragmentation

**Answer: (d)**

## Discipline4

161. If two non-continuous free partition of size 'a' and 'b' are available. A process of size 'c' cannot be allocated even when a + b > c, a < c and b < c. This problem is known as _____.

(a) external fragmentation
(b) internal fragmentation
(c) quick fit
(d) worst fit

**Answer: (a)**

162. The rate at which page fault occurs is known as _____.

(a) swapping
(b) paging
(c) thrashing
(d) compaction

**Answer: (c)**

163. _____ is a process of lifting the process from memory and placing it on disk.

(a) Paging
(b) Swapping out
(c) Swapping in
(d) Thrashing

**Answer: (b)**

164. Consider a main memory with the capacity of 4 page frames which are initially empty. If the page reference string is 1, 3, 4, 4, 3, 2, 1, 7, 5, 6 then what is the number of page fault using FIFO page replacement algorithm?

(a) 6
(b) 7
(c) 8
(d) 9

**Answer: (b)**

165. A certain percentage of deposits which a bank must keep in the form of cash with the RBI is called _____.

(a) Statutory Liquidity Ratio
(b) Cash Reserve Ratio
(c) Open Market Operations
(d) Liquidity Adjustment Facility

**Answer: (b)**

166. Which of the following method(s) is/are used to measure the aggregate value of goods and services produced in an economy?
I. Expenditure method
II. Income method
III. Product method

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

**Answer: (d)**

167. Which of the following effects of the price change can influence the consumer's optimal choice?
I. The change in the relative price of a good.
II. The change in the purchasing power of a consumer.
III. Sudden reduction in the minimum support price of a commodity.

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

**Answer: (c)**

168. Which layer in OSI model is responsible for the dialogue control and token management?

(a) Transport layer
(b) Session layer
(c) Physical layer
(d) Network layer

**Answer: (b)**

169. In OSI model network layer is responsible for _____.

(a) Dialog control
(b) Token management
(c) Routing
(d) Physical transmission

**Answer: (c)**

170. Which statement is/are true about the OSI model?
I. Layer 1 through 3 are end-to-end II. Layer 4 through 7 are chained

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

**Answer: (d)**

171. Layer five of OSI model is _____.

(a) Network layer
(b) Transport layer
(c) Session layer
(d) Presentation layer

**Answer: (c)**

172. Which of the following business models fall into the category of 'Native Internet Business Models'?
I. Library Model
II. Subscription Model

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

**Answer: (a)**

173. Which of the following statement(s) is/are correct regarding the strategies required to increase the visibility of e-commerce website?
I. The website name should be sensible that it can be guessed.
II. Uploading contents like special offers or eye catching information for the regular followers can increase traffic on the website.
III. Icons of social networks on the website have no major influence on e-visibility.

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

**Answer: (a)**

174. Which statement is correct regarding binary search tree?
I. The value at node N is less than every value in the left subtree of node.
II. The value at node N is greater than or equal to every value in the right subtree of N.

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

**Answer: (d)**

175. Which of the following statement(s) is/are correct regarding about the undirected graph?
I. Number of odd degree vertices is even.
II. Sum of degrees of all vertices is even.

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

**Answer: (c)**

177. Which statement(s) is/are correct regarding node N deletion in binary search tree?
I. If node N has no children then just replace location of N in the parent node by the null pointer.
II. If node N has two children, then replace it by preorder successor.

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

**Answer: (a)**

178. Which of the following is a type of information system?

(a) Transaction Processing System
(b) Online Processing System
(c) Real-time Processing System
(d) Distributed Processing System

**Answer: (a)**

179. Which of the following characteristic(s) of expert systems is/are correct?
I. The direction of interaction is from machine to the user.
II. Its domain of knowledge is narrow.
III. Information is produced by analysis of operational and external data.

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

**Answer: (c)**

180. Which of the following is not a operating system for mobile computing?

(a) Windows Mobile
(b) Palm OS
(c) Symbian OS
(d) Manet OS

**Answer: (d)**

## Discipline5

181. The maximum number of points that can be displayed without overlap on a CRT is referred to as _____.

(a) persistence
(b) resolution
(c) aspect ratio
(d) phosphorescence

**Answer: (b)**

182. How many different levels of heading does HTML support?

(a) 6

(b) 7

(c) 5

(d) 9

**Answer: (a)**

184. _____ is the process of identifying, organizing, storing and disseminating information within an organization.

(a) Knowledge management

(b) Human resource management

(c) Financial management

(d) Management information system

**Answer: (a)**

185. Which of the following methods can be used to organise notes for interpreting an information?
I. Flow chart
II. Transition devices

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (a)**

187. Rearrange steps involved in top-down ·ign gramming?
I. Analyze the problem
II. Revise and resequence
III. Write the main module
IV. Connect the modules in proper order V. Write the remaining modules

(a) II ⟶ IV ⟶ V ⟶ III ⟶ I

(b) III ⟶ I ⟶ V ⟶ IV ⟶ II

(c) V ⟶ III ⟶ I ⟶ IV ⟶ II

(d) I ⟶ III ⟶ V ⟶ IV ⟶ II

**Answer: (d)**

189. A question in mathematics is given to three students P, Q and R whose chances of solving are 1/3, 1/4, 1/5 respectively. What is the probability that the problem will be solved?

(a) 0.4

(b) 0.6

(c) 0.8

(d) 0.7

**Answer: (b)**

190. If f(1) = 4 and f(5) = 6, then what is the value of f(3) using Lagrange's interpolation?

(a) 5

(b) 6.5

(c) 4

(d) 3

**Answer: (a)**

191. _____ is the key process of teacher-centered approach.
I. Memorizing
II. Recalling from memory

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

192. Which of the following statement(s) is/are NOT correct?
I. In case of multi-grade and multi-level situations, teaching learning materials provide vital help to the teachers for effective management of their class.
II. Teaching learning materials are needed for effective self-learning.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (d)**

193. As a teacher, you have to realize that the entire responsibility of the assessment of learning and its follow up lies with you. Which of the following is/are that/those aspect(s) that need your attention?
I. You must collect sufficient evidence on which you base your decisions.
II. You need to be sensitive to the challenges faced by some students in completing the task/ assignment.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

194. _____ is the type of assessment.
I. Formative assessment II. Summative assessment

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

195. In Hindi every noun can have _____ forms in principle.

(a) 4

(b) 2

(c) 8

(d) 6

**Answer: (d)**

196. Which of the following statement(s) is/are NOT correct?
I. Sanskrit is the standard language of Brahmanic society.
II. Persian is the standard language of Iranians.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (d)**

197. There are various factors on which our choice of words, our selection of sentences are always dependent. Which of the following are those factors?
I. The context
II. The place where we speak
III. The theme

(a) I, II and III

(b) II and III

(c) I and III

(d) I and II

**Answer: (a)**

198. At the elementary level, how awareness of regional arts and crafts help?
I. To recognise and promote traditional and contemporary art and art pieces.
II. To sensitise the children about the pluralistic cultural legacy of India – awareness of local crafts.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

199. Gender discrimination can be _____.
I. direct
II. indirect

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

200. Which of the following is/are the indicator(s) of empowered women?
I. Participation in social change
II. Participation in developmental process

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**Answer: (c)**

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

## General Ability

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | **(b)** | 22 | **(d)** | 23 | **(d)** | 24 | **(a)** | 25 | **(b)** | 26 | **(a)** |
| 27 | **(a)** | 29 | **(d)** | 30 | **(b)** | 31 | **(d)** | 32 | **(a)** | 33 | **(d)** |
| 37 | **(a)** | | | | | | | | | | |

## Arithmetic Ability

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 43 | **(a)** | 45 | **(c)** | 46 | **(b)** | 47 | **(a)** | 48 | **(c)** | 49 | **(b)** |
| 52 | **(d)** | 53 | **(d)** | 54 | **(d)** | 55 | **(a)** | | | | |

## General English

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | **(b)** | 82 | **(b)** | 85 | **(c)** | 86 | **(c)** | 87 | **(b)** | 88 | **(a)** |
| 89 | **(d)** | 90 | **(c)** | 91 | **(b)** | 92 | **(a)** | 93 | **(d)** | 94 | **(b)** |
| 95 | **(b)** | 97 | **(b)** | 98 | **(c)** | | | | | | |

## Discipline1

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 104 | **(b)** | 105 | **(c)** | 106 | **(b)** | 108 | **(d)** | [illegible] | **(a)** | 110 | **(a)** |
| 111 | **(c)** | 113 | **(a)** | 114 | **(b)** | 115 | **(c)** | 116 | **(b)** | 118 | [illegible]9 |
| **(b)** | 120 | **(c)** | | | | | | | | | |

## Discipline2

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 121 | **(a)** | 122 | **(a)** | 123 | **(c)** | 124 | **(b)** | 126 | **(a)** | 127 | **(a)** |
| 129 | **(b)** | 130 | **(c)** | 132 | **(d)** | 133 | **(d)** | 135 | **(d)** | 136 | **(a)** |
| 137 | **(c)** | 138 | **(c)** | 139 | **(a)** | 140 | **(d)** | | | | |

## Discipline3

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 141 | **(c)** | 142 | **(c)** | 145 | **(b)** | 146 | **(a)** | 147 | **(c)** | 148 | **(c)** |
| 149 | **(b)** | 150 | **(d)** | 151 | **(a)** | 152 | **(a)** | 153 | **(b)** | 154 | **(d)** |
| 155 | **(c)** | 156 | **(d)** | 158 | **(b)** | 159 | **(c)** | 160 | **(d)** | | |

## Discipline4

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 161 | **(a)** | 162 | **(c)** | 163 | **(b)** | 164 | **(b)** | 165 | **(b)** | 166 | **(d)** |
| 167 | **(c)** | 168 | **(b)** | 169 | **(c)** | 170 | **(d)** | 171 | **(c)** | 172 | **(a)** |
| 173 | **(a)** | 174 | **(d)** | 175 | **(c)** | 177 | **(a)** | 178 | **(a)** | 179 | **(c)** |
| 180 | **(d)** | | | | | | | | | | |

## Discipline5

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 181 | **(b)** | 182 | **(a)** | 184 | **(a)** | 185 | **(a)** | 187 | **(d)** | 189 | **(b)** |
| 190 | **(a)** | 191 | **(c)** | 192 | **(d)** | 193 | **(c)** | 194 | **(c)** | 195 | **(d)** |
| 196 | **(d)** | 197 | **(a)** | 198 | **(c)** | 199 | **(c)** | 200 | **(c)** | | |