PREVIOUS YEAR PAPER

DSSSB TGT Computer Science 2021 — 8 August 2021, sitting 5

DSSSB TGT · 8 August 2021

143 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: 57 (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 8 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-8-aug-5/

General Awareness

1. _____ is located in Gujarat.

(a) Sultan Ghari's Tomb
(b) Warangal Fort
(c) Lakhota Fort
(d) Jaigarh Fort

Answer: (c)

2. Which of the following pair of instrument – type is rect?
I. Veena – Avanaddha
II. Sarangi – Sushir

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

Answer: (d)

3. Which of the following is/are the policy instrument of Reserve Bank of India?
I. Repo Rate
II. Reverse Repo Rate
III. Exchange Rate

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

Answer: (a)

4. Which of the following statements is NOT true about Reserve Bank of India?

(a) RBI can affect the reserve deposit ratio of commercial banks by adjusting the value of the reverse repo rate.

(b) It acts as the monetary authority of the country

(c) RBI is the independent authority for conducting monetary policy in the best interests of the economy.

(d) It sterilises the money supply in the economy against external shocks.

Answer: (a)

6. Property of metal by which it can be drawn into wires is called _____.

(a) malleability

(b) ductility

(c) sonority

(d) lustrity

Answer: (b)

7. Which of the following is correct about sound?
I. Large amplitude – Loud sound II. High frequency – Low pitch

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (a)

8. Which of the following tree is found in c[illegible]forou[illegible]orests?
I. Chir
II. Pine
III. Ash

(a) I and II

(b) II and III

(c) I and III

(d) I, II and III

Answer: (a)

9. What is the time lag from Gujarat to Arunachal Pradesh?

(a) 15 minutes

(b) 30 minutes

(c) 1 hour

(d) 2 hours

Answer: (d)

10. Which of the following is mica producing area in India?
I. Gaya
II. Hazaribagh
III. Ajmer

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

Answer: (d)

11. _____ was the first Mughal Emperor in India.

(a) Babur
(b) Akbar
(c) Humayun
(d) Shahjahan

Answer: (a)

12. Which of the following pair of place – year of formation is correct regarding Singh Sabha?
I. Amritsar – 1873
II. Lahore – 1879

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

Answer: (c)

13. Which of the following pair of Battle and their year is/are correct?
I. Battle of Buxar – 1764
II. Battle of Plassey – 1757

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

Answer: (c)

14. Who has written the book "Moving On Moving Forward : A Year in Office"?

(a) Manmohan Singh
(b) Arun Jaitley
(c) Venkaiah Naidu
(d) Manohar Parrikar

Answer: (c)

15. Who won the Nobel Peace Prize 2020?
    (a) Peter Handke
    (b) World Food Programme
    (c) ICAN
    (d) Abiy Ahmed Ali
    Answer: (b)

16. What is the rank of India in global energy transition index released in April 2021?
    (a) 87
    (b) 96
    (c) 67
    (d) 110
    Answer: (a)

17. Which amendment of Indian constitution provided legislative assembly for Delhi?
    (a) 61
    (b) 69
    (c) 73
    (d) 76
    Answer: (b)

18. Which article of Indian constitution is related to th uration of state legislatures?
    (a) 168
    (b) 172
    (c) 179
    (d) 187
    Answer: (b)

19. How many gold medals did India won in 2018 Commonwealth games?
    (a) 18
    (b) 32
    (c) 26
    (d) 20
    Answer: (c)

20. Which country has won the first ever FIFA World Cup?
    (a) Mexico
    (b) Brazil
    (c) Uruguay
    (d) France
    Answer: (c)

General Ability

21. A series is given with one term wrong. Select that wrong term from the given alternatives.
APQ, DUX, GZE, JFL, MJS

(a) JFL
(b) GZE
(c) DUX
(d) MJS

Answer: (a)

22. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
TONU, NOVW, HODY, BOLA, ?

(a) VOTB
(b) UOTC
(c) VOTC
(d) UOTB

Answer: (c)

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

(a) Friend
(b) Sister
(c) Brother
(d) Mother

Answer: (a)

24. In the following question, select the related letters from the given alternatives.
JRK : MUN :: ABC : ?

(a) DFE
(b) DEF
(c) CEF
(d) CFE

Answer: (b)

25. In the following question, select the related letter pair from the given alternatives.
PONL : PRST :: ?

(a) GABY : PZJB
(b) MINT : VQGM
(c) TONG : KRSX
(d) ROMB : AWUY

Answer: (c)

26. In a certain code language, 'I want it all' is written as 'lo pq rf fj', 'It all depends' is written as 'rf fj wy'. What is the code for 'it, all' in that code language?

(a) rf fj

(b) lo wy

(c) pq fj

(d) rf wy

Answer: (a)

27. Pointing to a girl, Sameer said, "She is the only daughter of my father". How is Sameer related to the girl?

(a) Brother

(b) Uncle

(c) Nephew

(d) Father

Answer: (a)

28. Six persons F1, F2, F3, F4, F5 and F6, are sitting in a straight line facing towards north. Among them one is a doctor, engineer, lawyer, manager, cricketer and boxer (not necessarily in the same order). Only one person sits between F2 and cricketer. F4 sits at the third place to the right of F3. Only two persons sit between boxer and lawyer. Only one person sits between cricketer and doctor. F4 is a engineer. F6 is a manager. Boxer sits at right end. F5 is immediate neighbor of F4. Which of the following is correct?

(a) Lawyer sits at the second place to the right of

(b) F3 sits at the second place to the right of F5

(c) Only three person sits between manager and cricketer

(d) Doctor sits at the third place to the left of engineer

Answer: (d)

29. Nine boys P, Q, R, S, T, U, V, W and X are sitting around a circular table facing towards the centre (not necessarily in the same order). U is fourth to the right of P. P is third to the right of Q. X is fourth to the left of Q. S is third to the left of X. R is third to the right of W. T is second to the left of V.

Which of the following statement(s) is/are not correct?

I. U and V are not the immediate neighbours.

II. V is the immediate neighbour of Q and U.

III. R is second to the right of T.

IV. W is third to the left of U.

(a) Only II

(b) II and III

(c) I, II, III and IV

(d) I, III and IV

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. No X are Y.
II. Some Z are Y.
Conclusions:
I. All Z are X.
II. No Y is X.

(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 F are C.
II. No D is F.
Conclusions:
I. Some C are F.
II. All C are D.
III. No F 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)

36. If north becomes south-west and south-east becomes north, then what west will become?

(a) South-east

(b) East

(c) North-east

(d) North-west

Answer: (a)

37. Radha walks 14 km towards north. She turns right and walks 22 km. She turns right and walks 24 km. She turns left and walks 26 km. She finally rotates by an angle of 90 degrees in anti-clockwise direction and walks 24 km. How far and in which direction is her starting point from the finishing point?

(a) 50 km, south-west
(b) 76 km, north-west
(c) 76 km, south-east
(d) 50 km, north-west

Answer: (a)

Arithmetic Ability

42. How many numbers from 1 to 300 are divisible by 7?

(a) 51
(b) 33
(c) 42
(d) 37

Answer: (c)

43. If product of two numbers is 578 and their Highest Common Factor is 17, then what is the difference between two numbers?

(a) 17
(b) 34
(c) 51
(d) 68

Answer: (a)

44. What is the Highest Common Factor of 21.97, 15.21, 16.9, 18.59 and 20.28?

(a) 3
(b) 1.3
(c) 1.69
(d) 13

Answer: (c)

46. Average of 10 numbers is 15. 2 is added to each number. What is the new average?

(a) 16
(b) 30
(c) 17
(d) 32

Answer: (c)

47. If 5 is added to a number, then number becomes 112.5 percent of itself. What is the number?

(a) 40
(b) 50
(c) 45
(d) 35

Answer: (a)

48. Anil donates 30 percent of his income to a school and deposits 70 percent of the remainder in his bank. If he has Rs. 9765 now, then what is the income of Anil?

(a) Rs. 45600
(b) Rs. 45500
(c) Rs. 46500
(d) Rs. 46000

Answer: (c)

49. Cost price of article A is 2800 and it is sold for a profit of 16 percent. Cost price of article B is Rs. 3200 and it is sold for a loss of 8 percent.
What is the ratio of selling price of A and B?

(a) 104 : 87
(b) 203 : 184
(c) 179 : 86
(d) 125 : 91

Answer: (b)

50. Two numbers are in the ratio of 2 : 3. If their sum is 20, then what is the sum of the squares of the two numbers?

(a) 208
(b) 196
(c) 200
(d) 324

Answer: (a)

51. In what ratio tea of Rs. 130 per kg should be mixed with tea of Rs. 150 per kg so that on selling the mixture at Rs. 162 per kg there is a profit of 20 percent?

(a) 2 : 1
(b) 3 : 1
(c) 4 : 1
(d) 5 : 2

Answer: (b)

52. The difference between simple interest on a certain sum at the annual rate of 11 percent for 8 years and 9 years is Rs. 132. What is the sum?

(a) Rs. 1450
(b) Rs. 1200
(c) Rs. 1300
(d) Rs. 1100

Answer: (b)

53. A car moves at the speed of 54 km/hr after repairing and moves at the speed of 36 km/hr before repairing. It covers a distance of x km in 6 hours after repairing. How much time will it take to cover a distance of 3x km before repairing?

(a) 27 hours
(b) 32 hours
(c) 24 hours
(d) 30 hours

Answer: (a)

54. Which of the following statement is correct?
I. Speed of boat in still water is 8 km/hr. If its speed in downstream is 12 km/hr, then its upstream speed is 10 km/hr.
II. A starts from point P at 8 am with speed of 50 km/hr. B starts from point P at 10 am with speed of 75 km/hr towards A. B will catch A at 2 pm.

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

Answer: (b)

55. A and B alone can do a work in 12 and 18 days respectively. A, B and C together can do the same work in 6 days. In how many days can C do the work alone?

(a) 48
(b) 24
(c) 36
(d) 30

Answer: (c)

General English

81. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
He have never (1)/and will never take your (2)/suggestion on this project. (3)/No error (4)

(a) He have never
(b) and will never take your
(c) suggestion on this project.
(d) No error

Answer: (a)

85. A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
No matter how tough a situation gets, you can always _____ it with your will power.

(a) covert

(b) overwhelm

(c) come

(d) overcome

Answer: (d)

86. A sentence has been given with a blank to be filled with an appropriate word/words. Choose the correct alternative.
She is the girl _____ stole my handbag.

(a) that

(b) whom

(c) which

(d) who

Answer: (d)

87. Rearrange the parts of the sentence in correct order.
In the Hellenistic Age,
P: Jews' social segregation and their refusal to Q: pagans, particularly in the 1st century BCE–1st century CE R: people aroused resentment among some S: acknowledge the gods worshiped by other

(a) PQSR

(b) RQPS

(c) SQPR

(d) PSRQ

Answer: (d)

88. Rearrange the parts of the sentence in the correct order.
P: knowledge about their subject matter, ideally that provided by the medium in which they are published Q: understood, they require that readers possess some basic background R: of current and newsworthy political issues, and, in order for them to be S: the subject matter of political cartoon is usually that

(a) PRSQ

(b) QPRS

(c) SRQP

(d) PRQS

Answer: (c)

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

(a) Slow
(b) Steady
(c) Often
(d) Certain

Answer: (b)

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

(a) Litigant
(b) Accuser
(c) Defendant
(d) Plaintiff

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) Intirnational
(b) International
(c) Intirnationel
(d) Internationel

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) Clinical
(b) Dictionery
(c) Bilingual
(d) Redemption

Answer: (b)

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

(a) To become angry
(b) Abandoned
(c) To attempt something dangerous
(d) To run away

Answer: (c)

94. In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.
To paddle one's own canoe

(a) To struggle for recognition
(b) To destroy one's chances
(c) To never give up
(d) To depend on oneself alone

Answer: (d)

95. Choose the word that can substitute the given sentence.
A young horse

(a) Fawn
(b) Drove
(c) Foal
(d) Kitten

Answer: (c)

97. "Black bears' energy requirements during these phases can drive their behavior." Which phase is the author talking about here?

(a) When bears are hungry
(b) When bears are hibernating
(c) When bears are in hyperphagia
(d) When bears wake up from hibernation

Answer: (d)

Discipline1

103. An anti-air craft gun can take a maximum of 4 shots at an enemy plane moving away from it. The probabilities of hitting the plane at the first, second, third and fourth shot are 0.6, 0.5, 0.4 and 0.2 respectively. What is the probability that the gun hit the plane?

(a) 0.904
(b) 0.924
(c) 0.804
(d) 0.824

Answer: (a)

104. In a public limited company, the minimum number of shareholders is _____.

(a) Nine
(b) Four
(c) Seven
(d) Ten

Answer: (c)

105. Which is the shortcut key to find and replace action in MS-Word?

(a) Ctrl+H
(b) Ctrl+R
(c) Ctrl+D
(d) Ctrl+A

Answer: (a)

106. What is the full form of FORTRAN computer programming langauge?

(a) Formula Translation
(b) First Translation
(c) Formula Transition
(d) First Transition

Answer: (a)

107. The memory resident components of an operating system are commonly known as the _____ of the operating system.

(a) blocks
(b) kernel
(c) partition
(d) segments

Answer: (b)

108. Which of the following is a typically interpreted language?
I. C
II. Perl

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

Answer: (b)

109. There are three main concepts that any language needs to support to be an object-oriented language. Which of the following is one of them?
I. Encapsulation
II. Inheritance
III. Polymorphism

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

Answer: (d)

110. What is the total number of elements in a array E[–4 : 1, 6 : 10]?

(a) 30

(b) 20

(c) 9

(d) 11

Answer: (a)

111. Which data structure is used to indicate that the order of the processing of data must be postponed until other conditions are fulfilled?

(a) Array

(b) Linked list

(c) Trees

(d) Stack

Answer: (d)

113. What is the polish notation of the given infix expression?
(A * B + C)/(E – F * G)

(a) +*/ABCE*FG

(b) /+*ABC–E*FG

(c) /ABC+*–E*FG

(d) +/ABC*–E*FG

Answer: (b)

114. What is the output of the code written in C? voi ain()
{
int k=8, v=8,i;
i=k/++v;
printf("%d\n",i);
}

(a) 0

(b) 1

(c) 0.8

(d) Error

Answer: (a)

117. Consider the following C declaration. Assume that objects of data type short, float and long occupy 2 bytes, 4 bytes and 8 bytes respectively.
What is memory requirement for variable t?

```
struct {
short a[5];
union{
float v;
long z;}
u;
}t;
```

(a) 22 bytes
(b) 18 bytes
(c) 24 bytes
(d) 10 bytes

Answer: (b)

118. _____ protocol is used for uploading and downloading files between different computers.
(a) X.12
(b) XMODEM
(c) X.75
(d) XON

Answer: (b)

119. An operating system that helps in sharing the fil across the network is known as _____.
(a) network operating system
(b) real operating system
(c) time operating system
(d) coupling operating system

Answer: (a)

120. (84) = (?) ?
12 8
(a) 142
(b) 144
(c) 134
(d) 104

Answer: (b)

Discipline2

121. _____ mode allows transmission in either direction but not simultaneously.
(a) Duplex
(b) Half duplex
(c) Simplex
(d) Half-simplex

Answer: (b)

122. Which input device is used for reading answer to question in a test or survey?

(a) OCR

(b) OMR

(c) Barcode reader

(d) MICR

Answer: (b)

123. Which of the following is a impact printer?

(a) Inkjet printer

(b) Dot-matrix printer

(c) Laser printer

(d) Thermal printer

Answer: (b)

124. Which of the following statement(s) is/are not true about magnetic tapes?
I. Direct access device
II. Store large volume of data
III. Use for backup purpose

(a) II and III

(b) I and III

(c) Only I

(d) Only II

Answer: (c)

126. A 2 way switch works as follows:
Both switches ON = lights off Both switches O ght off One switch ON and other OFF = light on
Which gate can be used to implement this?

(a) OR

(b) AND

(c) NAND

(d) XOR

Answer: (d)

127. Which counter is a shift register with its complement output of the last stage connected to the D-input of the first stage?

(a) Synchronous

(b) Twisted ring

(c) Up

(d) Down

Answer: (b)

128. Linearity error is expressed as a percentage of _____.

(a) minimum input voltage

(b) maximum input voltage

(c) maximum output voltage

(d) minimum output voltage

Answer: (c)

129. A code in which only one bit changes between successive numbers is known as _____ code.

(a) ASCII

(b) Hamming

(c) GRAY

(d) BCD

Answer: (c)

130. Which of the following pair regarding sign bit is correct?
I. 0 – positive
II. 1 – negative

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

131. If (21121) = (C) , then what is the value of C?
3 4

(a) (2023) 4

(b) (3032) 4

(c) (2112) 4

(d) (3031) 4

Answer: (d)

132. _____ is known as the acquisition, storage, organization, retrieval, display and dissemination of information.

(a) Data management

(b) Information processing

(c) Data structure

(d) Programming management

Answer: (b)

133. What is the cardinality of Relation having 500 tuples and 50 attribute?

(a) 500

(b) 50

(c) 450

(d) 2500

Answer: (a)

134. How many rule does Dr. E.F. Codd provides which qualify a database as a RDBMS?

(a) 10
(b) 11
(c) 12
(d) 13

Answer: (c)

135. Which of the following is a type of connection trap in Entity relationship model?
I. Fan traps
II. Chasm traps

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

Answer: (c)

137. Which of the following is NOT an approach of database design in database management system?

(a) Top-down approach
(b) Bottom-up approach
(c) Inside-out approach
(d) Up-down approach

Answer: (d)

138. Which of the following is an Aggregate operation in Structured Query Language?

(a) Minus
(b) Intersect
(c) Union
(d) Count

Answer: (d)

139. How many address lines and input-output data line are needed for the 64k × 8 memory unit?

(a) 16 address line, 3 data line
(b) 6 address line, 3 data line
(c) 16 address line, 8 data line
(d) 10 address line, 8 data line

Answer: (c)

Discipline3

141. The mask logical micro operation is equivalent to which logical gate?

(a) OR gate
(b) NOR gate
(c) AND gate
(d) NAND gate

Answer: (c)

142. How many memory references are required to fetch an operand in indirect addressing?

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

Answer: (b)

143. This instruction is of what type?
ADD R1, A, B

(a) Zero Address Instruction
(b) Two Address Instruction
(c) One Address Instruction
(d) Three Address Instruction

Answer: (d)

144. Which attribute in HTML table tag defines the number of columns in a column group?

(a) border
(b) colspan
(c) Rowspan
(d) span

Answer: (d)

145. When the drawee fails to make the payment on the date of maturity, then a bill is said to have been _____.

(a) discounted
(b) dishonoured
(c) defected
(d) cleared

Answer: (b)

146. Which of the following is/are the objective(s) of accounting?
I. Maintenance of Records of Business Transactions II. Calculation of Profit and Loss

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

Answer: (c)

147. Which of the following is/are the reason(s) for difference between cash book and bank passbook?
I. Cheques paid into the bank but not yet collected
II. Interest and dividends collected by the bank

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

Answer: (c)

149. Which of the following statement(s) is/are correct regarding software metrics in software engineering?
I. Direct measures of the software product include functionality quality, efficiency etc. of the software.
II. Indirect measures of the software product includes lines of code produced, execution speed, memory size etc. of the software product.

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

Answer: (d)

150. The SRS document produced at the end of requi ent analysis and specification is known as _____.

(a) white-box specification
(b) black-box specification
(c) design plan
(d) architectural design

Answer: (b)

151. Which of the following statements are not true about CASE tool?
I. It degrades the quality
II. Reduce the drudgery in software engineer's work III. Increase maintenance cost

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

Answer: (a)

152. Process of recovering the design and the requirement specification of a product from an analysis of its code is called as _____.

(a) Software analysis
(b) Software engineering
(c) Software reverse engineering
(d) Software return engineering

Answer: (c)

153. Spiral model of software development is also known as _____.

(a) successive model

(b) meta model

(c) prototype model

(d) risk model

Answer: (b)

154. In which debugging approach, the program is loaded with print statements to print the intermediate values with the hope that some of the printed values will help to identify the statement as error?

(a) Backtracking

(b) Cause Elimination Method

(c) Brute Force Method

(d) Program Slicing

Answer: (c)

155. Which of the following is a invalid relational operator in Java?

(a) < =

(b) = >

(c) ! =

(d) = =

Answer: (b)

156. Which of the following are monolithic kernel sy ms?
I. Linux
II. Windows

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

157. Which of the following statement(s) is/are true regarding processes and threads in operating system?
I. Threads encapsulates concurrency within a process.
II. Process encapsulates protection within the system.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

158. Which of the following statement(s) is/are true regarding threads in operating system?
I. The threads in a process are visible to other processes.
II. A thread is strictly private resource of a process.

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

Answer: (b)

159. Which of the following is not a state of a process in operating system?

(a) Waiting
(b) Excite
(c) Running
(d) Ready

Answer: (b)

160. Which of the following is not a CPU scheduling Algorithm?

(a) FCFS
(b) C-SCAN
(c) SJF
(d) SJN

Answer: (b)

Discipline4

161. Which of the following statement(s) is/are [illegible]bout CPU scheduling algorithm?
I. Shortest remaining time first scheduling may cause starvation II. Round Robin is better than First Come First Serve in terms of response time

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

Answer: (c)

162. Short run marginal cost curve is _____.

(a) S-shaped
(b) U-shaped
(c) V-shaped
(d) Inverse U-shaped

Answer: (b)

163. Which of the following is/are the tool(s) of monetary policy of the RBI?
I. Reverse Repo Rate
II. Repo Rate
III. Bank Rate

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

Answer: (d)

164. Which of the following statement is NOT correct regarding monopolistic competition?

(a) The marginal revenue is slightly less than the average revenue
(b) The goods produced by them are not homogeneous
(c) The demand curve faced by the firm is horizontal
(d) The market structure of the firm allows for new firms to enter the market

Answer: (c)

165. Which statements are true about local area network?
I. Communication takes place by way of satellites, microwave II. Faster than wide area network
III. Covers limited area

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

Answer: (b)

166. Which statements are true about wide area network?
I. Covers wide geographical area
II. Communication take place by way of satellites, microwaves III. Relatively faster than local area network

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

Answer: (a)

167. What does the acronym of ICMP Protocol?

(a) Internet Contention Message Protocol
(b) Internet Communication Message Protocol
(c) Internet Control Message Protocol
(d) Internet Carrier Message Protocol

Answer: (c)

168. Which of the following statement(s) is/are not true about star topology?
I. Failure of the Central Computer shut down the entire network II. Connection of additional computers increase the communication time

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

Answer: (b)

169. In Ethernet, when Manchester encoding is used, then the pulse width are _____ of the straight binary encoding.

(a) same
(b) half
(c) twice
(d) one third

Answer: (b)

170. Which data transmission technique in a computer network required dedicated communication channel?

(a) Circuit switching
(b) Packet switching
(c) Message switching
(d) Frame switching

Answer: (a)

171. What is the description of append keywo. sual Basic .NET keyword?

(a) Boolean operation
(b) Used in the declare statement
(c) Used as a symbolic constant in the file open function
(d) Assembly – level attribute specifier

Answer: (c)

172. Which of the following business models falls into the category of 'Transplanted Real-World Business Models'?

(a) Free trial model
(b) Freeware model
(c) Access provision model
(d) Digital products model

Answer: (a)

173. Procedure for online trading involve(s) which of the following step(s)?
I. Make an application to open a Demat Account and Online Trading Account.
II. Allocate funds from the bank account to the trading account.
III. Once the order is confirmed, it is placed in the stock exchange through the online trading system.

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

Answer: (c)

174. Which of the following can be the valid balance factor of any node in an AVL tree?

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

Answer: (a)

175. The vertex in a graph with degree one is known as _____.

(a) isolated vertex
(b) loop vertex
(c) pendant vertex
(d) external vertex

Answer: (c)

179. Which of the following is a component of Decision Support System (DSS)?
I. User interface
II. Knowledge engine

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

Answer: (c)

180. CDMA is an example of which generation of cellular networks?

(a) 2G
(b) 5G
(c) 3.5G
(d) 4G

Answer: (a)

Discipline5

181. Arrange the following mobile data speed in ascending order.
GSM, LTE, GPRS, EDGE

(a) GSM, GPRS, EDGE, LTE

(b) GSM, EDGE, GPRS, LTE

(c) GPRS, GSM, LTE, EDGE

(d) GSM, GPRS, LTE, EDGE

Answer: (a)

182. Circle have _____ way symmetry.

(a) two

(b) four

(c) eight

(d) one

Answer: (c)

184. Which colour specification in CSS use three numbers representing the hue (from 0 to 360 degree), saturation percentage and lightness percentage?

(a) Hexadecimal

(b) RGB

(c) HSL

(d) Alpha

Answer: (c)

185. What is the full form of JPEG image forms?

(a) Joint Photographic Experts Group

(b) Joint Photographic Experts Graphics

(c) Joint Photo Experts Group

(d) Joint Photo Experts Graphics

Answer: (a)

186. Which statements are true about sequence structure during program execution?
I. Each statement is executed once
II. No statement is repeated
III. The statements are executed in any order

(a) II and III

(b) I and III

(c) I and II

(d) I, II and III

Answer: (c)

187. What is the mean of the mode and median of the data given below?
8, 7, 5, 4, 9, 1, 3, 7, 6, 5, 2, 1, 6, 3, 9, 8, 4, 6

(a) 6.5

(b) 5.75

(c) 6.25

(d) 5.5

Answer: (b)

188. Let P be the median of the data: 34, 28, 20, 32, 15, 9, 23, 26, 35, 16, 33, 43. If 16 and 23 are replaced by 30 and 32 respectively in the data, then let Q be the median of the resulting data. What is the value of (3P – 2Q)?

(a) 18

(b) 19

(c) 21

(d) 15

Answer: (b)

191. Which of the following is/are the characteristic(s) of an effective method of teaching and learning?
I. Provides a scope for peer learning
II. Encourages students to think independently and construct knowledge of their own

(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 correct?
I. Materials for activity learning need to be relevant, contextual and related to real life experiences II. Textbook is an essential material for teaching and learning

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

193. Which of the following is not a feature of formative assessment?

(a) It is diagnostic and remedial

(b) It provides a platform for the active involvement of students in their own learning

(c) It is not conducted at regular intervals on informal basis

(d) It ensure provision for effective feedback

Answer: (c)

194. Which of the following statement(s) is/are correct?
I. After completion of teaching a topic, we always desire to known the extent of acquisition of knowledge and understanding of the topic and compare the achievement of each individual against the desired level of achievement. This process is called assessment of learning.
II. Mr. Rohan was assessing the performance of students while teaching – learning process was going on. He used the results of assessment for improvement of learning and his own teaching process. This process is called Assessment for learning.

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

Answer: (c)

195. In humans which of the following body part(s) has been adapted for speech?
I. Lungs
II. Nose
III. Tongue

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

Answer: (a)

196. Which of the following statement(s) is/are corre
I. Language acquisition refers to developing compe ce in a language by using it in natural, communicative situations (as available wh arn languages we hear in our homes and the neighbourhood).
II. Language learning refers to developing competence in a language by learning it rules and vocabulary through explicit teaching in a classroom setting.

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

Answer: (c)

197. Art education is the area of learning that is based upon _____.
I. visual, tangible art
II. performing arts

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

Answer: (c)

198. Which of the following statement(s) is/are correct about Regional art and craft?
I. Art originating among the people of region reflecting their traditional culture.
II. It does not have its own aesthetics but they are not governed by the principles of proportions and rhythms.

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

Answer: (c)

199. Which of the following thing(s) a teacher should do consciously to avoid gender bias and to promote gender equality?
I. They must use gender-neutral language and encourage children also to do so.
II. Teacher may avoid assigning gendered jobs.

(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 source(s) of gender discrimination?
I. Educational opportunities
II. Government policies
III. Family and parents

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

Answer: (b)

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

General Ability

21	**(a)**	22	**(c)**	23	**(a)**	24	**(b)**	25	**(c)**	26	**(a)**
27	**(a)**	28	**(d)**	29	**(d)**	30	**(b)**	31	**(c)**	36	**(a)**
37	**(a)**										

Arithmetic Ability

42	**(c)**	43	**(a)**	44	**(c)**	46	**(c)**	47	**(a)**	48	**(c)**
49	**(b)**	50	**(a)**	51	**(b)**	52	**(b)**	53	**(a)**	54	**(b)**
55	**(c)**										

General English

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

Discipline1

103	**(a)**	104	**(c)**	105	**(a)**	106	**(a)**	[illegible]	**(b)**	108	**(b)**
109	**(d)**	110	**(a)**	111	**(d)**	113	**(b)**	114	**(a)**	117	[illegible]8 **(b)**
119	**(a)**	120	**(b)**								

Discipline2

121	**(b)**	122	**(b)**	123	**(b)**	124	**(c)**	126	**(d)**	127	**(b)**
128	**(c)**	129	**(c)**	130	**(c)**	131	**(d)**	132	**(b)**	133	**(a)**
134	**(c)**	135	**(c)**	137	**(d)**	138	**(d)**	139	**(c)**		

Discipline3

141	**(c)**	142	**(b)**	143	**(d)**	144	**(d)**	145	**(b)**	146	**(c)**
147	**(c)**	149	**(d)**	150	**(b)**	151	**(a)**	152	**(c)**	153	**(b)**
154	**(c)**	155	**(b)**	156	**(c)**	157	**(c)**	158	**(b)**	159	**(b)**
160	**(b)**										

Discipline4

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

Discipline5

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