PREVIOUS YEAR PAPER

DSSSB TGT Computer Science 2021 — 1 August 2021, sitting 2

DSSSB TGT · 1 August 2021

147 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: 53 (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-2/

General Awareness

1. Bathukamma festival belongs to _____.

(a) Tamil Nadu
(b) Goa
(c) Kerala
(d) Telangana

Answer: (d)

2. Which of the following pair of festival – state is cor t?
I. Anduri Utsav – Uttarakhand
II. Pang Lhabsol – Sikkim

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

Answer: (c)

3. Which image is printed at the back of Rs. 500 note of Mahatma Gandhi (New) series?

(a) Mangalyaan
(b) Red Fort
(c) Sanchi Stupa
(d) Ellora Caves

Answer: (b)

4. Which of the following statement(s) is/are correct regarding the intermediate goods in an economy?
I. These are not final goods.
II. Steel sheets used for making automobiles is one of its examples.

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

Answer: (c)

5. Fishes breath through there _____.

(a) gills
(b) skin
(c) tail
(d) eyes

Answer: (a)

6. In a concave mirror, when object is at inflinity then image is _____.

(a) at C
(b) at F
(c) beyond C
(d) at infinity

Answer: (b)

7. Which of the following is correct?
I. Sliding friction > static friction II. Rolling fric sliding friction

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

Answer: (d)

8. Which continent is the largest producer of diamonds in the world?

(a) Asia
(b) North America
(c) Europe
(d) Africa

Answer: (d)

9. Which of the following statement is correct?
I. Sedimentary rocks may contains fossils.
II. Igneous rocks can change into metamorphic rocks under great heat and pressure.

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

Answer: (c)

10. Which of the following is correct about Mahanadi?
I. Mahanadi rises in highlands of Chhattisgarh.
II. Its length is about 860 km.

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

Answer: (c)

11. At _____ , Buddha taught for the first time.

(a) Rajgir
(b) Sarnath
(c) Vaishali
(d) Vajji

Answer: (b)

12. In which year was 'Poona Pact' introduced

(a) 1930
(b) 1922
(c) 1932
(d) 1928

Answer: (c)

13. Which of the following statement(s) regarding Partition of Bengal is/are correct?
I. It was happened in 1905.
II. It was done by Viceroy Curzon.

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

Answer: (c)

14. Who has written the book “The End of India”?

(a) Amartya Sen
(b) Khushwant Singh
(c) Shashi Tharoor
(d) Amitav Ghosh

Answer: (b)

15. How many people were given Padma Bhushan in 2021?

(a) 10
(b) 12
(c) 8
(d) 14

Answer: (a)

16. Who publishes Global Gender Gap Report?

(a) International Monetary Fund
(b) Asian Development Bank
(c) World Economic Forum
(d) World Bank

Answer: (c)

17. Which amendment of Indian Constitution ceased th ecognition granted to Rulers of Indian states and abolished privy purses?

(a) 26
(b) 38
(c) 21
(d) 15

Answer: (a)

18. Which article of Indian constitution is related with the power of parliament to amend the constitution and procedure therefor?

(a) 361
(b) 368
(c) 373
(d) 378

Answer: (b)

19. How many silver medals did India won at 2016 Olympic games?

(a) 0
(b) 1
(c) 2
(d) 3

Answer: (b)

20. Which country won the 2019 FIFA U20 World cup?

(a) South Korea

(b) Ukraine

(c) Ecuador

(d) Uruguay

Answer: (b)

General Ability

21. A series is given with one term wrong. Select that wrong term from the given alternatives.
AKTU, BIUS, CGVQ, DEWN, ECXM

(a) DEWN

(b) BIUS

(c) ECXM

(d) CGVQ

Answer: (a)

22. A series is given with one term wrong. Select that wrong term from the given alternatives.
GRAMB, IVERH, KXIWN, MAMBT, ODQGZ

(a) ODQGZ

(b) GRAMB

(c) MAMBT

(d) IVERH

Answer: (d)

23. In the following question, four pairs are gi[illegible]e 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) CL – LC

(b) KW – WK

(c) BY – YB

(d) NM – MP

Answer: (d)

24. In the following question, select the related words from the given alternatives.
Chisel : Sculptor :: Saw : ?

(a) Carpenter

(b) Teacher

(c) Table

(d) Building

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.
(TRAB, JHZA, IGPQ)

(a) (ALPM, UVTH, PADB)

(b) (KNSQ, YZVR, ZDHF)

(c) (GBLK, SSJN, VQAZ)

(d) (ANJH, QQVH, PCYX)

Answer: (c)

26. In a certain code language, 'VENUE' is written as 'LBULC'. What is the code for 'TEMPO' in that code language?

(a) VWTLA

(b) VWTAL

(c) VTWLA

(d) VTWAL

Answer: (a)

27. A team of four men is to be selected from amongst seven men A, B, C, D, E, F and G. A and B have to be selected together. D and F have to be selected together. C cannot be selected with E. F cannot be selected with G. Which of the following team of four men is possible?

(a) A, B, C and E

(b) A, B, C and D

(c) A, B, D and F

(d) A, B, D and G

Answer: (c)

28. Seven girls L, M, N, P, Q, R and S are sitting around a circular table facing towards the centre (not necessarily in the same order). M is second to the right of N. N is third to the right of P. R is third to the right of S. L is third to the left of Q. S is not the immediate neighbour of M.
Which of the following statement(s) is/are correct?
I. Q is to the immediate left of N.
II. P is third to the left of N.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

29. A3B means B is wife of A. A5B means B is sister of A. A7B means B is mother of A. A9B means B is father of A. In A9B3C5D, what is the relation of D with A?

(a) Aunt

(b) Mother

(c) Daughter

(d) Niece

Answer: (a)

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 P are K.
II. No S is P.
Conclusions:
I. No P is S.
II. All S are K.

(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 L are J.
II. No V is L.
Conclusions:
I. All J are L.
II. All V are J.
III. All L are V.

(a) Only conclusion I follows

(b) Neither conclusion follows

(c) Both conclusions II and III follows

(d) All conclusion follows

Answer: (b)

32. In the following question, select the related number from the given alternatives.
198 : 66 :: ?

(a) 144 : 48

(b) 146 : 46

(c) 148 : 44

(d) 142 : 42

Answer: (a)

33. A series is given with one term wrong. Select that wrong term from the given alternatives.
9, 9, 13.5, 28, 67.5, 202.5

(a) 202.5
(b) 13.5
(c) 67.5
(d) 28

Answer: (d)

36. A is to the west of K. J is to the south of B. B is to the south of K. L is to the east of A and west of K. In which direction is J from L?

(a) North-west
(b) South-east
(c) South-west
(d) North-east

Answer: (b)

37. Saroj walks 24 km towards north. She turns right and walks 20 km. She turns left and walks 30 km. She rotates by 90 degrees in clockwise direction and walks 15 km. she turns right and walks 30 km. She finally rotates by 90 degrees in clockwise direction and walks 25 km. How far and in which direction is her starting point from the finishing point?

(a) 26 km, South-west
(b) 49 km, North-east
(c) 26 km, North-east
(d) 49 km, South-west

Answer: (a)

Arithmetic Ability

41. What is the value of 7.7 + 7 + 777 + 7.77?

(a) 811.37
(b) 899.27
(c) 701.67
(d) 799.47

Answer: (d)

43. What is the difference between the sum of first five prime numbers and sum of next five prime numbers?

(a) 71
(b) 72
(c) 73
(d) 74

Answer: (c)

44. If product of two prime numbers A and B (A < B) is 221, then what is the value of (4A – 3B)?

(a) –1
(b) 1
(c) –2
(d) 2

Answer: (b)

46. Average of a and b is 42. Average of b and c is 56. Average c and a is 48. What is the average of a, b and c?

(a) 48.66
(b) 50.33
(c) 46.66
(d) 47.33

Answer: (a)

47. If A percent of 434 = 62, then what is the value of A?

(a) 16.66
(b) 12.5
(c) 15
(d) 14.28

Answer: (d)

48. A's salary is 50 percent of B's salary. If A's salary is increased by 60 percent and B's salary is decreased by 20 percent, then A's salary will be how much percentage of B's salary?

(a) 50 percent
(b) 100 percent
(c) 200 percent
(d) 150 percent

Answer: (b)

49. Cost price of 10 articles is equal to the selling price of 12 articles. What is the profit/loss percentage? (Cost price of all articles is same and selling price of all articles is same)

(a) Loss 20 percent
(b) Loss 16.66 percent
(c) Profit 20 percent
(d) Profit 16.66 percent

Answer: (b)

50. If a : b = 1 : 2 and b : c = 2 : 1, then what is the value of a : b : c?

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

Answer: (b)

51. The ratio of three numbers is 2 : 3 : 6 and the sum of their square is 441. What is the value of the largest of the three numbers?

(a) 54
(b) 27
(c) 18
(d) 21

Answer: (c)

52. What is that rate of simple interest at which a sum of money becomes three times of itself in 48 years?

(a) 5.28 percent
(b) 4.17 percent
(c) 4.38 percent
(d) 5.68 percent

Answer: (b)

53. A man starts from a place A and reaches the place B in 16 hours. He travels 1/2 distance at the speed of 6 km/hr and the remaining distance at the speed of 18 km/hr. What is the distance between A and B?

(a) 144 km
(b) 169 km
(c) 100 km
(d) 196 km

Answer: (a)

54. Which of the following statement is correc
I. A starts from point P at 8:00 am with speed of 45 km/hr. B starts from point P at 10:00 am at 60 km/hr towards A. B will catch A at 4:00 pm.
II. If A increases his speed by 25 percent, then he covers the same distance in 20 percent less time.

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

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'. Onions are most water, (1)/ plus some vitamins (2)/ and sugar compounds. (3)/ No error (4)

(a) Onions are most water,
(b) plus some vitamins
(c) and sugar compounds.
(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'.
With great power come greater (1)/ responsibility, the line used by (2)/ spiderman is very apt in today's world. (3)/ No error (4)

(a) With great power come greater

(b) responsibility, the line used by

(c) spiderman is very apt in today's world.

(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.
There is always an _____ to a stated theory.

(a) enemity

(b) eulogy

(c) placid

(d) exception

Answer: (d)

86. A sentence has been given with a blank to be filled with an appropriate word/words. Choose the correct alternative.
_____ behalf of her son, she took the award.

(a) In

(b) At

(c) With

(d) On

Answer: (d)

87. Rearrange the parts of the sentence in correct order.
Human rights are rights
P: consequence of inherent human vulnerability, or because Q: that belong to an individual or group of R: they are requisite to the possibility of a just society S: individuals simply for being human, or as a

(a) SPQR

(b) QRPS

(c) RPSQ

(d) QSPR

Answer: (d)

88. Rearrange the parts of the sentence in the correct order.
P: tended to be used for cheesecake titillation or as Q: counterparts, Wonder Woman stood apart R: adjuncts to their more powerful and popular male S: in an industry where super heroines

(a) RQPS

(b) SPRQ

(c) SPQR

(d) SRQP

Answer: (b)

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

(a) Adore
(b) Abhor
(c) Amend
(d) Astute

Answer: (a)

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

(a) Exquisite
(b) Requisite
(c) Parasite
(d) Fanatic

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) Shoppeng
(b) Soping
(c) Shopping
(d) Shoping

Answer: (c)

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

(a) Horradous
(b) Historical
(c) Opposition
(d) Noticeable

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.
Bread and cheese

(a) Rich and heavy food
(b) Livelihood
(c) To mock someone
(d) Simple food

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.
Long in the tooth

(a) Very talkative
(b) Rather old
(c) To have sweet cravings
(d) Big hearted person

Answer: (b)

95. Choose the word that can substitute the given sentence.
A government consisting of old people

(a) Gerontocracy
(b) Neocracy
(c) Ochlocracy
(d) Oligarchy

Answer: (a)

97. What can be implied from the statement "It is only the odd voice that sees it as a relic of a feudal past"?

(a) It is strangely identified as an outdated sport.
(b) Only a few people consider it to be a sport of ancient social system.
(c) Ancient people considered it to be important fe val.
(d) It is been played from the ancient time and no t has become outdated.

Answer: (b)

99. Which of the following doesn't include the e who died during this sport?

(a) Spectators
(b) Organizers
(c) Bull owners
(d) Participants

Answer: (d)

100. Why Jallikattu event cries for maximum regulation?

(a) Due to the rising bull gore injuries and deaths.
(b) There are no provisions for maintaining bulls in the playing arena.
(c) Less protected playing arena and deaths.
(d) Increasing fatalities to the victims only.

Answer: (a)

Discipline1

104. Which of the following comes under the category of survey report in an organization?

(a) Field reports

(b) Project reports

(c) Sales reports

(d) Company annual reports

Answer: (a)

105. 10 –15 second = _____.

(a) 1 picosecond

(b) 1 Attosecond

(c) 1 femtosecond

(d) 1 nanosecond

Answer: (c)

106. What is the full form of 'The ENIAC' the first all electronics computer?

(a) The electronic numerical integrator automatic calculator

(b) The electronic numerical integrator automatic computer

(c) The electronic numerical integrator and computer

(d) The electronic numerical integrator and calculator

Answer: (c)

107. What is the value of (1715) in base 12?
10

(a) (BAA) 12

(b) (ABA) 12

(c) (BCB) 12

(d) (BAB) 12

Answer: (d)

108. Which of the following is/are the aspect(s) of software evolution?
I. Software Architecture Aspect
II. Programming Language Aspect

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

109. Which of the following are the functions performed by operating system?
I. Process Management
II. Memory Management
III. Security

(a) I and II

(b) II and III

(c) I and III

(d) I, II and III

Answer: (d)

110. What is the length of an array when its first index is denoted by i and last index is denoted by j?

(a) length of an array = i + j

(b) length of an array = j – i

(c) length of an array = j – i + 1

(d) length of an array = j – i – 1

Answer: (c)

111. What is the condition for binary search to be unsuccessful where Beg is the beginning and End is ending location of sorted array?

(a) End > Beg

(b) End = = Beg

(c) End < Beg

(d) End ! = Beg

Answer: (c)

112. Which statement(s) is/are true about for[illegible]f identifier in C?
I. It consist of alphabets, digits and underscore.
II. An identifier can start with an underscore.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

113. In C++ a wide – character constant begins with the letter _____.

(a) W

(b) C

(c) L

(d) S

Answer: (c)

114. Arrange the following in ascending order of their average case complexity.
Selection-sort, Quick-sort, Linear search, Binary search

(a) Quick-sort, Selection-sort, Binary search, Linear search

(b) Linear search, Binary search, Selection-sort, Quick-sort

(c) Binary search, Linear search, Quick-sort, Selection-sort

(d) Selection-sort, Quick-sort, Linear search, Binary search

Answer: (c)

115. What is the output of the code written in C? void main()
{
printf("%d",7%-3);
printf("%d",-7%3);
}

(a) 1 –1

(b) –1 –1

(c) –1 1

(d) 1 1

Answer: (a)

116. Which of the following statement(s) is/are true about pre-processor in C/C++?
I. To replace each #include directive with the contents of the designated file.
II. To replace each escape sequence with designated character.
III. To process macro definitions and expand macro calls.

(a) I and II

(b) II and III

(c) Only I

(d) I, II and III

Answer: (d)

117. What is the equivalent infix expression of the following postfix expression?
M, N, O, +, *, P, /, Q, R, S, T, /, +, *, –

(a) O * (M + N)/P – Q * (R + S/T)

(b) M * (N + O)/Q – P * (R/S + T)

(c) N * (M + O)/Q – P * (S + R/T)

(d) (((M*(N+O))/P)–(Q*(R+(S/T))))

Answer: (d)

118. While inserting the elements 71, 56, 48, 96, 76, 82, 98 in an empty binary search tree in the sequence shown, which element will come in the lowest level?

(a) 96

(b) 98

(c) 71

(d) 82

Answer: (d)

120. _____ protocol is used for electronic data interchange. (Standard developed for the electronic exchange of machine – readable information between businesses.)

(a) X.12
(b) X.75
(c) XON
(d) XL2.5

Answer: (a)

Discipline2

121. What is the full form of EBCDIC?

(a) External Binary Coded Digit Interchange Code
(b) External Bit Code Digit Internal Code
(c) External Bit Code Decimal Interchange Code
(d) Extended Binary Coded Decimal Interchange Code

Answer: (d)

122. Write the binary code for EXAM in ASCII-7. (decimal code of A is 65)

(a) 1001101101100010000011001101
(b) 1000101101100010000011001101
(c) 1011000100000110110001000001
(d) 1000001101100010011011011000

Answer: (b)

123. _____ converts a source code to obje de

(a) Compiler
(b) Linker
(c) Editor
(d) Loader

Answer: (a)

124. Method of subtraction by an additive approach is known as _____ subtraction.

(a) inverse
(b) complementary
(c) multiplicative
(d) associate

Answer: (b)

125. 3 resistors of 3 ohm each connected in series. What is the mean values of resistors?

(a) 1 ohm
(b) 9 ohm
(c) 6 ohm
(d) 18 ohm

Answer: (b)

127. Simplify the following Boolean expression.
E(E + F) + DE + D(E + F)

(a) E + DF

(b) F + DE

(c) D + EF

(d) D + E + F

Answer: (a)

129. A monostable multivibrator has which of the following state(s)?
I. One stable state
II. One quasi-stable state

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

130. In a demultiplexer, the number of output lines is n and the number of select lines is m. Which of the following is correct?

(a) n = 2 m

(b) m = 2 n

(c) n = 2m

(d) m = 2n

Answer: (a)

132. What is the full form of ISAM in file orga[illegible]?

(a) Indirect Sequential Access Method

(b) Indexed Sequential Access Method

(c) Indirect Serial Access Method

(d) Index Serial Access Method

Answer: (b)

133. Primary index in sequential order file organisation is also known as _____.

(a) dense index

(b) clustering index

(c) non-clustering index

(d) sparse index

Answer: (b)

134. Deductive model of DBMS is also known as _____.

(a) Object-oriented model

(b) Inference model

(c) Interactive model

(d) Differential model

Answer: (b)

135. _____ is a system database that contains description of the data in the database.

(a) Data Catalog
(b) Information Catalog
(c) Record Catalog
(d) File Catalog

Answer: (a)

136. Which of the following statement(s) is/are correct regarding a relation in second normal form?
I. It is in first normal form
II. Every non-key attribute is fully and functionally independent on the primary key

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

Answer: (a)

139. A flip-flop is capable of storing _____ information.

(a) 1 byte
(b) 1 bit
(c) 1 byte word
(d) 1 nibble

Answer: (b)

140. Shortcut key used to open Google chrome dev per tools in windows is _____.

(a) Ctrl+I
(b) Ctrl+Shift+I
(c) Shift+I
(d) Ctrl+Alt+I

Answer: (b)

Discipline3

141. Which of the following is/are correct?
I. The Journal is the book for chronological record II. The ledger is the book for analytical record

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

Answer: (c)

142. Which of the following is/are the method(s) of calculating depreciation amount?
I. Straight line method
II. Written down value method

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

Answer: (c)

143. Equivalence partitioning is a _____.

(a) White box testing method
(b) Black box testing method
(c) Comparison testing method
(d) Loop testing method

Answer: (b)

144. What is the other name of Data Flow Diagram (DFD)?

(a) Flow chart
(b) Pictorial graph
(c) Bubble chart
(d) Di-graph

Answer: (c)

145. In _____ model, software is developed in a seri of incremental releases.

(a) Spiral
(b) Sequential
(c) Concurrent
(d) RAD

Answer: (a)

146. What is the full form of CASE tool in software engineering?

(a) Computer Aided Software Engineering
(b) Computer Application Software Engineering
(c) Control Application Software Engineering
(d) Code Aided Software Engineering

Answer: (a)

147. According to Boehm's, what are the definitions of verification and validation?

(a) Verification: Is the software free of errors? Validation: Is the software commercially viable?
(b) Verification: Is the software commercially viable? Validation: Is the software free of errors?
(c) Verification: Are we building the product right? Validation: Are we building the right product?
(d) Verification: Are we building the right product? Validation: Are we building the product right?

Answer: (c)

148. Which statement(s) is/are correct regarding the feasibility study?
I. It determines whether developing the product is financially feasible II. It determines whether developing the product is technically feasible

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

149. N is the number of nodes of the control graph and E is the number of edges in the control flow graph. What is Mc Cabe's cyclomatic complexity V(G)?

(a) V(G) = E + N + 2

(b) V(G) = E – N + 2

(c) V(G) = E + N – 2

(d) V(G) = E – N – 2

Answer: (b)

150. A java program that is embedded in HTML document and runs in the context of java capable browser is known as _____.

(a) applet

(b) canvas

(c) doctags

(d) frame window

Answer: (a)

152. The process in an operating system in which output of any program is not printed directly on printer but dumped onto a reserved area of a disk is known as _____.

(a) System call

(b) Teardown operation

(c) Spooling

(d) Swapping

Answer: (c)

153. Disabling an interrupt is known as _____.

(a) masking

(b) run

(c) stop

(d) halt

Answer: (a)

154. Consider a main memory with the capacity of 3 page frames which are initially empty. Page reference is 4, 7, 6, 1, 7, 6, 1, 2, 7, 2. What is the number of page fault using optimal page replacement algorithm?

(a) 7
(b) 6
(c) 5
(d) 4

Answer: (c)

155. Inner most layer of operating system which is always present in main memory is known as _____.

(a) hardware
(b) user interface
(c) application program
(d) kernel

Answer: (d)

156. The instruction which are executed only in kernel mode is known as _____.

(a) memory instruction
(b) arithmetic instruction
(c) privileged instruction
(d) logical instruction

Answer: (c)

157. Move the Read/Write head of disk in order to position on a correct track is known as _____.

(a) Waiting time
(b) Access time
(c) Seek time
(d) Latency time

Answer: (c)

158. Data structure maintained by the operating system to maintain information for each thread within a process is known as _____.

(a) Process control block
(b) Thread control block
(c) Symbol table
(d) Scheduling queue

Answer: (b)

159. Monotonicity of preferences implies that the indifference curves are _____.
I. Downward sloping
II. Positively sloping

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

Answer: (a)

160. Which of the following is a qualitative tool used by RBI to control money supply?

(a) Moral Suasion
(b) Cash Reserve Ratio
(c) Bank Rate
(d) Open Market Operations

Answer: (a)

Discipline4

161. A connection that allows traffic either way, but only one way at a time is known as _____.

(a) full duplex
(b) half duplex
(c) duplex
(d) simplex

Answer: (b)

162. What is the full form of DVMRP Protocol?

(a) Distance Vector Multiple Routing Protocol
(b) Distance Vector Multicast Routing Protocol
(c) Distance Vector Multitask Routing Protocol
(d) Distance Vector Message Routing Protocol

Answer: (b)

164. The loss of energy as signal propagates outward is known as _____.

(a) Noise
(b) Distortion
(c) Attenuation
(d) Scattering

Answer: (c)

165. Systems in which multiple users share a common channel in a way that can lead to conflicts are widely known as _____.

(a) Carrier

(b) Communication network

(c) Contention

(d) Bus

Answer: (c)

167. What is the name of the virtual machine component of microsoft .NET Framework which manages the execution of .NET program?

(a) Code level security

(b) Cross language class inheritance

(c) Common language runtime

(d) Common type system

Answer: (c)

168. _____ is a system to make a file or directory visible in multiple parts of the system's file tree in Linux operator system.

(a) Directories

(b) Special files

(c) Links

(d) Sockets

Answer: (c)

169. The deliveries of goods or services ordered on an e-shop do NOT depend upon which of the following?

(a) Size of products

(b) Cost of products

(c) Urgency

(d) Nature of products

Answer: (b)

170. Which of the following statement(s) is/are correct regarding digital certificates?
I. A digital certificate does not include the name of the CA who issues it.
II. Digital certificates are based on public key cryptography.
III. These certificates are available only in one strength i.e. 128-bit encryption.

(a) I and II

(b) Only III

(c) Only II

(d) I and III

Answer: (c)

172. Which rotations in AVL trees are known as single rotations?

(a) LL and RR

(b) LL and LR

(c) RR and RL

(d) LR and RL

Answer: (a)

175. Preorder traversal of binary search tree is 38, 14, 8, 23, 18, 20, 56, 45, 82, 70. What is the postorder traversal of binary search tree?

(a) 23, 20, 18, 14, 8, 38, 45, 56, 70, 82

(b) 8, 18, 20, 23, 14, 45, 70, 82, 56, 38

(c) 8, 20, 18, 23, 14, 45, 70, 82, 56, 38

(d) 82, 70, 56, 45, 38, 23, 20, 18, 14, 8

Answer: (c)

176. Which of the following acts as an intermediary between the specialist and the expert system?

(a) Knowledge base

(b) Inference engine

(c) Data dictionary

(d) Knowledge engineer

Answer: (d)

177. Which of the following statement(s) is/are correct regarding batch transaction processing?
I. The database is updated when the transaction is processed.
II. The associated cost is very high.
III. Reports generated are required only at a scheduled interval.

(a) Only II

(b) Only III

(c) I and II

(d) I and III

Answer: (b)

178. What is the full form of GPRS in mobile computing?

(a) General Packet Radio Service

(b) General Packet Radiation Service

(c) General Package Radio Service

(d) General Packet Route service

Answer: (a)

179. Which of the following is a part of the system architecture of GSM in mobile computing?
I. Radio Subsystem
II. Networking and Switching Subsystem
III. Operation Support Subsystem

(a) I and II

(b) II and III

(c) I and III

(d) I, II and III

Answer: (d)

180. The duration of phosphorescence exhibited by a phosphor is known as _____.

(a) phosphorescence

(b) fluorescence

(c) persistence

(d) deflection

Answer: (c)

Discipline5

181. What is the CMY co-ordinates of a colour at (0.2, 1, 0.5) in the RGB space?

(a) (0.8, 1, 0.5)

(b) (0.8, 0, 0.5)

(c) (1.2, 0, 1.5)

(d) (0.2, 0.8, 0.3)

Answer: (b)

182. Consider a triangle with co-ordinates points: A(0, 0), B(3, 3) and C(2, 5). When scaling parameter is 2 towards x-axis and 4 towards y-axis, then what are the new co-ordinates of triangle?

(a) A(0, 0), B(6, 12), C(4, 20)

(b) A(0, 0), B(5, 7), C(4, 9)

(c) A(2, 4), B(5, 7), C(4, 9)

(d) A(0, 0), B(3/2, 3/4), C(1, 5/4)

Answer: (a)

183. _____ is the person who runs our web servers.

(a) Data analyst

(b) Web master

(c) Database designer

(d) Web Designer

Answer: (b)

184. What is the extension of MPEG Audio file?

(a) .mpeg

(b) .mp3

(c) .mp4

(d) .mov

Answer: (b)

185. Which of the following factors is taken into account when we develop a Knowledge Management System (KMS)?

(a) It requires a knowledge contract.

(b) It is a cheap management system.

(c) It is a definite process.

(d) It has no human implications.

Answer: (a)

186. In the beginning, when reporting a meeting one should give precise information about the _____.

(a) history of the organisation

(b) title of the speech

(c) future prospects

(d) participants

Answer: (a)

188. Which of the following are included in the user cumentation of program?
I. Program formatting
II. Description of program and its purpose
III. Description of program output

(a) II and III

(b) I and II

(c) I and III

(d) I, II and III

Answer: (a)

189. The median of 7, 5, 8, x, 12, 17 is 10, then what is the value of x?

(a) 13

(b) 11

(c) 9

(d) 12

Answer: (d)

190. In a bulb factory, machines P, Q and R manufacture respectively 25%, 35% and 40% of the total. Of their output 5, 4 and 2 percent respectively are defective bulbs. A bulb is drawn at random and it is found to be defective. What is the probability that it was manufactured by machine Q?

(a) 0.55

(b) 0.45

(c) 0.31

(d) 0.41

Answer: (d)

191. Which of the following is/are the characteristic(s) of Teacher Centred Approach of teaching – learning?
I. Extrinsic modes of motivation like praise, rewards and punishment are generally used by the teachers.
II. Emphasis is given on passive listening, reading and writing and reproducing things taught by or as directed by the teacher.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

192. 'It is not always possible to bring real objects to the classroom'. Which of the following is/are the reason(s) behind the given statement?
I. Size of the object
II. Safety
III. Cost

(a) I, II and III

(b) II and III

(c) Only III

(d) I and II

Answer: (a)

193. 'If you are planning to teach the different states of India in class VI, then you need to know whether the students are well conversant in using the atlas'. This given statement is referred to which of the following phase(s) of Assessment For Learning?
I. Formative Assessment
II. Diagnostic Assessment

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (b)

194. While giving written feedback in Assessment for Learning, which of the following point(s) need to be taken care of?
I. Don't jump straight to errors. Praise first.
II. Encourage the student to make corrections. Don't simply write the correct answers, spellings and so on.

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

Answer: (c)

195. _____ is the first step for learning a language.
I. Speaking
II. Listening

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

Answer: (c)

196. How can we provide opportunities for listening and speaking in the classroom?
I. Listening and singing poems
II. Discussion through pictures

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

Answer: (c)

197. In order to use drama as a linguistic activity, which of the following characteristic(s) need to be included?
I. Freedom
II. Enjoyment

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

Answer: (c)

198. People who work with visual images includes _____.
I. painters
II. sculptors

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (c)

199. Which of the following statement(s) is/are NOT correct?
I. Gender is a socio-cultural construct.
II. Sex is systemic.

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Answer: (b)

200. Which of the following is/are the special feature(s) of Kasturbha Gandhi Balika Vidyalya?
I. Providing residential facilities to create a free environment for learning II. Providing life skill trainings
III. Providing extra coaching for slow learners

(a) I, II and III

(b) Only III

(c) II and III

(d) I and III

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

General Ability

21	**(a)**	22	**(d)**	23	**(d)**	24	**(a)**	25	**(c)**	26	**(a)**	27	**(c)**	28	**(c)**
29	**(a)**	30	**(a)**	31	**(b)**	32	**(a)**	33	**(d)**	36	**(b)**	37	**(a)**		

Arithmetic Ability

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

General English

81	**(a)**	82	**(a)**	85	**(d)**	86	**(d)**	87	**(d)**	88	**(b)**	89	**(a)**	90	**(b)**
91	**(c)**	92	**(a)**	93	**(d)**	94	**(b)**	95	**(a)**	97	**(b)**	99	**(d)**	100	**(a)**

Discipline1

104	**(a)**	105	**(c)**	106	**(c)**	107	**(d)**	[illegible]	**(c)**	109	**(d)**	110	**(c)**	111	**(c)**
112	**(c)**	113	**(c)**	114	**(c)**	115	[illegible].6		**(d)**	117	**(d)**	118	**(d)**	120	**(a)**

Discipline2

121	**(d)**	122	**(b)**	123	**(a)**	124	**(b)**	125	**(b)**	127	**(a)**	129	**(c)**	130	**(a)**
132	**(b)**	133	**(b)**	134	**(b)**	135	**(a)**	136	**(a)**	139	**(b)**	140	**(b)**		

Discipline3

141	**(c)**	142	**(c)**	143	**(b)**	144	**(c)**	145	**(a)**	146	**(a)**	147	**(c)**	148	**(c)**
149	**(b)**	150	**(a)**	152	**(c)**	153	**(a)**	154	**(c)**	155	**(d)**	156	**(c)**	157	**(c)**
158	**(b)**	159	**(a)**	160	**(a)**										

Discipline4

161	**(b)**	162	**(b)**	164	**(c)**	165	**(c)**	167	**(c)**	168	**(c)**	169	**(b)**	170	**(c)**
172	**(a)**	175	**(c)**	176	**(d)**	177	**(b)**	178	**(a)**	179	**(d)**	180	**(c)**		

Discipline5

181	**(b)**	182	**(a)**	183	**(b)**	184	**(b)**	185	**(a)**	186	**(a)**	188	**(a)**	189	**(d)**
190	**(d)**	191	**(c)**	192	**(a)**	193	**(b)**	194	**(c)**	195	**(c)**	196	**(c)**	197	**(c)**
198	**(c)**	199	**(b)**	200	**(a)**										