PREVIOUS YEAR PAPER

# DSSSB Technical Assistant (Computer) 2021 — 10 September 2021, Shift 1

DSSSB Other Posts · 10 September 2021 · Shift 1

165 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: 35 (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 10 September 2021, Shift 1. 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-other-posts/previous-year-papers/dsssb-other-posts-2021-technical-assistant-computer-10-sep-shift-1/

## General Awareness

1. Phag dance, also known as Faag or Phaag dance, is a popular folk-dance form of _____.

(a) Madhya Pradesh
(b) Haryana
(c) Gujarat
(d) Goa

**Answer: (b)**

2. Which among the following is the New Year day of Gujarat that falls during harvest season on the day after Diwali?

(a) Gudi Padwa
(b) Vishu
(c) Cheti Chand
(d) Bestu Varas

**Answer: (d)**

3. Gross Domestic Product - Depreciation = _____

(a) National Income
(b) Gross National Product
(c) Net Domestic Product
(d) Net National Product

**Answer: (c)**

4. As announced in the Budget 2021, 100% electrification of Broad-Gauge routes will be completed by _____.

(a) November 2022
(b) December 2023
(c) December 2024
(d) November 2025

**Answer: (b)**

5. Which among the following metals is the lightest and least dense metal?
   (a) Silver
   (b) Aluminium
   (c) Osmium
   (d) Lithium
   **Answer: (d)**

6. The phenomenon by which plant's growth is directed towards light is known as _____.
   (a) Thigmotropism
   (b) Phototropism
   (c) Transpiration
   (d) Osmosis
   **Answer: (b)**

7. The famous Pong Dam Lake is located in which of the following states?
   (a) Rajasthan
   (b) Tripura
   (c) Assam
   (d) Himachal Pradesh
   **Answer: (d)**

8. The highest mountain peak of _____ is Deomali.
   (a) West Bengal
   (b) Assam
   (c) Odisha
   (d) Maharashtra
   **Answer: (c)**

9. Who among the following Governor Generals prohibited female infanticide?
   (a) Lord Bentinck
   (b) Lord Dalhousie
   (c) Lord Hastings
   (d) Lord Cornwallis
   **Answer: (a)**

10. When did the East India Company annexed the Punjab and incorporated it within British India?
   (a) 1841
   (b) 1857
   (c) 1849
   (d) 1862
   **Answer: (c)**

11. When was the Practice of Sati prohibited?

(a) 1829
(b) 1815
(c) 1832
(d) 1847

**Answer: (a)**

12. 'Golden Girl' is an autobiography of _____.

(a) Mary Kom
(b) P.T. Usha
(c) Sania Mirza
(d) Saina Nehwal

**Answer: (b)**

13. The headquarters of World Economic Forum is located in _____.

(a) United States of America
(b) United Kingdom
(c) Spain
(d) Switzerland

**Answer: (d)**

14. PM Modi launched a Pilot Project of E 100 ethanol pensing stations at _____ locations in Pune, for the production and distribution of ethanol ɔss the country in June 2021.

(a) six
(b) two
(c) four
(d) three

**Answer: (d)**

15. Which among the following countries realised maximum Bitcoin gains for 2020?

(a) China
(b) United States of America
(c) Japan
(d) United Kingdom

**Answer: (b)**

16. According to Knight Frank's Global House Price Index for Q1 2021, India has been ranked at the _____ position.

(a) 52nd
(b) 48th
(c) 55th
(d) 43rd

**Answer: (c)**

17. The concept of Concurrent List in the Indian Constitution was borrowed from the constitution of _____.

(a) United Kingdom
(b) France
(c) Canada
(d) Australia

**Answer: (d)**

18. Which among the following Constitutional Amendment made a provision for service tax?

(a) 88th
(b) 76th
(c) 91st
(d) 79th

**Answer: (a)**

19. Who is the first Indian to win the All England Open Badminton Championships?

(a) Saina Nehwal
(b) Prakash Padukone
(c) Nandu Natekar
(d) Jwala Gutta

**Answer: (b)**

20. Who among the following is the leading run-scor and century-maker in One Day Internationals (ODI) cricket history as of June 2021?

(a) Virat Kohli
(b) Kumar Sangakkara
(c) Sachin Tendulkar
(d) Ricky Ponting

**Answer: (c)**

## General Ability

21. Complete the following series.
36Q49, 64S81, 100U121, 144W169, ?

(a) 196Z225
(b) 196Y225
(c) 225Y256
(d) 169Y244

**Answer: (b)**

22. Arrange the following words in meaningful order.
1. Adult
2. Foetus
3. Newborn
4. Infant
5. Adolescent

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

**Answer: (c)**

23. Out of the given options, three are similar in a certain manner. However, one option is NOT like the other three. Select the option which is different from the rest.

(a) Chop
(b) Slit
(c) Chirp
(d) Slice

**Answer: (c)**

24. Out of the given options, select the word which CANNOT be formed using the letters of the word:
ORIENTATION

(a) NATION
(b) ORIENTAL
(c) RATION
(d) ORNATE

**Answer: (b)**

25. Select the option that is related to the third term on the same basis as the second term is related to the first term.
Carpenter : Saw :: Surgeon : ?

(a) knife
(b) blade
(c) pen
(d) scalpel

**Answer: (d)**

26. Select the triad that is related on the same basis to the triad given in the question.
Sky : Aeroplane : Pilot

(a) Compass : Ship : Driver
(b) Track : Train : Passenger
(c) Road : Bus : Driver
(d) Paper : Letters : Reader

**Answer: (c)**

27. If “EXAMINATIONS” is coded as “XEAMNIATOINS”, then what is the code for “RESULT”?

(a) REUSTL
(b) REUSLT
(c) ERSUTL
(d) ERSULT

**Answer: (c)**

28. If black is brown, brown is blue, blue is purple, purple is green, then what is the colour of the sky?

(a) blue
(b) purple
(c) green
(d) brown

**Answer: (b)**

29. Sheila said that “the father of Rahul's father is my father.” How is Sheila related to Rahul?

(a) Sister
(b) Mother
(c) Paternal Aunt
(d) Daughter

**Answer: (c)**

30. Harun is heavier than Mahesh but lighter than Sameer. Mahesh is lighter than Atul but heavier than Raju. Who among them is the lightest?

(a) Atul
(b) Mahesh
(c) Raju
(d) Sameer

**Answer: (c)**

31. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.
Statement 1 : Some ants are sparrows.
Statement 2 : All sparrows are mangoes.
Conclusion I : All mangoes are sparrows.
Conclusion II : Some ants are mangoes.

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both conclusion I and II follow
(d) Either conclusion I or II follows

**Answer: (b)**

32. In the question, there are two statements given, labelled as Assertion (A) and Reason (R). You have to choose the correct alternative from the given options.
Assertion (A) : Most of the Himalayan rivers are perennial.
Reason (R) : They are fed by melting snow.

(a) Both A and R are true and R is the correct explanation of A.

(b) Both A and R are true but R is not the correct explanation of A.

(c) A is true but R is false.

(d) A is false but R is true.

**Answer: (a)**

33. If + means multiplication, - means division, × means subtraction and ÷ means addition, what is the value of 2 + 3 ÷ 2 × 15 - 3?

(a) -8

(b) 3

(c) 11

(d) 24

**Answer: (b)**

## Arithmetic Ability

41. What is the largest 4 digit number divisible by 12?

(a) 9984

(b) 9987

(c) 9999

(d) 9996

**Answer: (d)**

42. If 134/0.134 = 13.4/x then what is the value of (x + 50) × 1.34 ?

(a) 67.02

(b) 134

(c) 43.4

(d) 57.06

**Answer: (a)**

43. Printed price of the article is 650 and the shopkeeper gets a discount of 40% on the printed price when he purchases it. The shopkeeper sells the product at 650 itself. What is the profit percentage?

(a) 40%

(b) 33.33%

(c) 25%

(d) 66.67%

**Answer: (d)**

44. The two numbers are 30% and 50% more than the third number. What is the first number expressed in terms of percentage of the second number?

(a) 66.67

(b) 115.38

(c) 86.67

(d) 76.92

**Answer: (c)**

45. If a number is 30% more than the second number, how much percentage is the smaller number less than the first number?

(a) 33.33%

(b) 30%

(c) 23.10%

(d) 20%

**Answer: (c)**

46. A shopkeeper buys a bicycle at 5000 and marks the cycle at 30% higher rate, then gives a discount of 10%. What is the selling price?

(a) ₹ 7222.22

(b) ₹ 6500

(c) ₹ 5850

(d) ₹ 5500

**Answer: (c)**

47. A man bought 15 dozen of goods at pric[illegible]f 50[illegible] The rate per dozen at which he sells the good is 500. The total profit that he earns is P1. P2 [illegible]rofit that he would have earned if he bought the goods at half the cost and sold at double the price. What is the ratio of P1 to P2?

(a) 5 : 1

(b) 1 : 4

(c) 1 : 2

(d) 1 : 5

**Answer: (d)**

48. There are two numbers with the ratios of 5 : 4. The sum of the numbers are 72. If 9 is subtracted from both the numbers what is the new proportion?

(a) 31/27

(b) 31/23

(c) 5/4

(d) 23/31

**Answer: (b)**

49. The ratio of salary of Ram and Shyam are in the ratio of 3 : 5. The sum of the salaries are 64000. If the salary of both is increased by 3000, then what is the new ratio of their salary?

(a) 3 : 5
(b) 27 : 43
(c) 5 : 3
(d) 43 : 27

**Answer: (b)**

50. The compound interest on ₹ 20000 at 8% p.a. is ₹ 7210. What is the duration?

(a) 4.5 years
(b) 3 years
(c) 4 years
(d) 4.2 years

**Answer: (c)**

51. The minimum number of years in which a sum of money put out at 25% simple interest will be more than double is:

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

**Answer: (b)**

52. A train travels for a distance of 50 kms and reaches a destination. The time taken to reach the destination is 35 mins. What is the speed of the train in meter per minute?

(a) 1428.57
(b) 1456.88
(c) 1411.25
(d) 1456.35

**Answer: (a)**

53. A man travels in a car for 5 hours. He travels first 2 hours at a speed of 90 km/h and 3 hours at a speed of 10 m/s. What is the distance covered (in km) by the man in 5 hours?

(a) 210
(b) 250
(c) 300
(d) 288

**Answer: (d)**

54. A, B, C can do the work in 10, 20, 40 days respectively. If on first day they all work together and on second day A and B work together, how much of work will be done in those two days?

(a) 13/40
(b) 1/2
(c) 1/4
(d) 1/5

**Answer: (a)**

55. B, C, D can do the work in 7, 14, 21 days respectively. If B and C do the job for 2 days then how many days will D take to complete the remaining job alone?

(a) 18 days
(b) 6 days
(c) 7 days
(d) 12 days

**Answer: (d)**

56. How many spherical balls can be made up of 35 cm high cylinder with radius 4 cm where the cube of the radius of the sphere is 1.4 cm.

(a) 1760
(b) 350
(c) 1700
(d) 300

**Answer: (d)**

57. 1 cubic cm of marble weighs 20 grams. How we[illegible]t of marble is 100 kg. What will be the length of the marble if its width and height is 20 cm [illegible]m respectively?

(a) 20 cm
(b) 50 cm
(c) 10 cm
(d) 25 cm

**Answer: (b)**

## General English

81. The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.
One of the bankers involved/ in the stock market scam/ were finally caught.

(a) One of the bankers involved
(b) in the stock market scam
(c) were finally caught.
(d) No Error

**Answer: (c)**

82. The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.
The two monsters battled it/ out on the Mount Fuji and wrestled/ into the ocean.

(a) The two monsters battled it

(b) out on the Mount Fuji and wrestled

(c) into the ocean.

(d) No Error

**Answer: (b)**

83. Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.
Neither of the customers (nor the bartender had so much so noticed) him leave his seat.

(a) or the bartender had so much as noticed

(b) nor the bartender had so much but noticed

(c) nor the bartender had so much as noticed

(d) No correction required

**Answer: (c)**

84. Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.
Mason points out that (accusations in collusion for th vo) companies were nothing new.

(a) accusations of collusion between the two

(b) accusations with collusion for the tw

(c) accusations for collusion by the two

(d) No correction required

**Answer: (a)**

85. Fill in the blank with the most appropriate choice.
Her _____ of ice cream and cookies is due to her Olympic team training.

(a) abberation

(b) negation

(c) delegation

(d) abnegation

**Answer: (d)**

86. Fill in the blank with the most appropriate choice.
Since I don’t like orange _____, I purchase non-pulp orange juice from the grocery store.

(a) frith

(b) statolith

(c) pith

(d) monolith

**Answer: (c)**

87. The question below consist of a set of labelled sentences. Out of four options given, select the most logical order of the sentences which form a paragraph.
The big-bang model is based on two assumptions.
P. This principle applies only to the large-scale properties of the universe, but it does imply that the universe has no edge, so that the big-bang origin occurred not at a particular point in space but rather throughout space at the same time.
Q. These two assumptions make it possible to calculate the history of the cosmos after a certain epoch called the Planck time.
R. The first is that Albert Einstein's general theory of relativity correctly describes the gravitational interaction of all matter.
S. The second assumption, called the cosmological principle, states that an observer's view of the universe depends neither on the direction in which he looks nor on his location.
Scientists have yet to determine what prevailed before Planck time.

(a) RPSQ
(b) RQSP
(c) RQPS
(d) RSPQ

**Answer: (d)**

88. Select the word that is SYNONYM (similar in meaning) to the word given below. mollify

(a) intensify
(b) aggravate
(c) prolong
(d) allay

**Answer: (d)**

89. Select the word that is ANTONYM (opposite meaning) to the word given below. eschew

(a) embrace
(b) shun
(c) renounce
(d) abjure

**Answer: (a)**

90. Four words are given, out of which only one word is spelt correctly. Choose the CORRECTLY spelt word.

(a) apease
(b) appease
(c) appeasse
(d) apeasse

**Answer: (b)**

91. Four words are given, out of which only one word is spelt correctly. Choose the CORRECTLY spelt word.

(a) arbitrary
(b) arbritrary
(c) arbritary
(d) arbritry

**Answer: (a)**

92. Select the most appropriate meaning of the given idiom.
Hit below the belt

(a) A tedious job
(b) Contrary to the principles of fairness
(c) With full devotion
(d) Angry and overcome by emotions

**Answer: (b)**

93. Select the most appropriate meaning of the given idiom.
Idle hands are the devil's tools

(a) Do something exactly right or say something exactly right
(b) You are more likely to get in trouble if you have nothing to do
(c) When you already have it good and get something on top of what you already have
(d) When one thing goes wrong, then another, and another...

**Answer: (b)**

94. Select the most appropriate 'one word' for the expressions given below.
Lots of energy and style

(a) Panacea
(b) Panache
(c) Parlance
(d) Parsimony

**Answer: (b)**

95. Select the most appropriate 'one word' for the expressions given below.
A large natural or artificial lake used as a source of watersupply

(a) Rummage
(b) Reticent
(c) Regalia
(d) Reservoir

**Answer: (d)**

96. When was the Australian national emissions scheme formed?

(a) 1911

(b) 1914

(c) 2008

(d) 2012

**Answer: (d)**

97. Which country is being talked about in the line "The current resources boom is there because other countries want our fossil fuels, and for all these reasons it is profitable to keep mining them."?

(a) England

(b) U.S.A.

(c) U.A.E

(d) Australia

**Answer: (d)**

98. Which of the following is NOT a fossil fuel?

(a) Coal

(b) Oil

(c) Gas

(d) Geothermal

**Answer: (d)**

100. What does the line, "Fossil fuels like coal and oi ve underpinned our economic growth and standard of living for decades." mean?

(a) Fossil fuels have been causing a de in economic growth for power consumption for decades.

(b) Fossil fuels have been causing great harm to the environment when used to produce energy.

(c) Fossil fuels have been used for years to produce and meet our energy needs.

(d) Fossil fuels have been used the supporting pillar for our economic growth for power consumption for decades.

**Answer: (d)**

## Discipline1

101. A CEO expresses his vision to employees in an organization. What is the type of communication here?

(a) Upward Communication

(b) Downward Communication

(c) Informal Communication

(d) Lateral Communication

**Answer: (b)**

102. When you are giving a Welcome or Introductory speech, which point should be kept in mind?

(a) If you are not known to the audience, introduce yourself before you welcome and introduce others.

(b) Don't be bothered about the names, initials and so on.

(c) It's not necessary to express happiness on the fact that the speakers/guests have accepted the invite and have come over.

(d) Mis-pronouncements is considered ok if audience is cheering.

**Answer: (a)**

103. Which of the following is NOT a part of theme speech?

(a) Introduction

(b) Body

(c) Conclusion

(d) Salutation

**Answer: (d)**

104. If a person asks "What is a profession?", then what kind of inquiry is it?

(a) Normative Inquiry

(b) Conceptual Inquiry

(c) Descriptive Inquiry

(d) Confirmation Inquiry

**Answer: (b)**

105. What does NOT contribute to poor attitude of t employees?

(a) Poor working environments

(b) Absence of recognition and reward syst

(c) Presence of grievance redressal mechanism

(d) Lack of transparency

**Answer: (c)**

106. Which of the following is NOT a part of five core human values?

(a) Right conduct

(b) Peace

(c) Truth

(d) Violence

**Answer: (d)**

107. _____ of an element is a determinant obtained by deleting the row and column in which that element occurs.

(a) Order

(b) Minor

(c) Co-factor

(d) Matrix

**Answer: (b)**

108. Express: (3 + 2i) (4 + 2i) in a + ib form

(a) 8 + 14i

(b) 14 + 8i

(c) 16 + 14i

(d) 14 + 16i

**Answer: (a)**

110. Which of the following is a property of streamline flow?

(a) There is no orderliness in the flow of liquid.

(b) The velocity of all particles in a line of flow is a constant.

(c) The velocity of flow is always greater than the critical velocity.

(d) Streamline flow will happen when the driving pressure is high.

**Answer: (b)**

111. When the pressure and volume of a gas change, but no heat is allowed to enter or leave the gas, it is called _____.

(a) Adiabatic Change

(b) Isothermal Change

(c) Isentropic Change

(d) Isobaric Change

**Answer: (a)**

112. Two or more than two forces that lie on same pl are called _____.

(a) Concurrent forces

(b) Coplanar forces

(c) Frictional forces

(d) Parallel forces

**Answer: (b)**

113. Which of the following is a characteristic of dynamic RAM?

(a) It has long life

(b) Large size

(c) High power consumption

(d) Need to be refreshed continuously

**Answer: (d)**

114. Production of dumps, traces and error messages is a part of which function of OS?

(a) File Management

(b) Error Detecting aids

(c) Security

(d) Memory Management

**Answer: (b)**

115. Which of the following is NOT a part of a typical computer window?

(a) Title bar

(b) Menu bar

(c) Slider

(d) Scroll bar

**Answer: (c)**

116. A _____ topology features a central connection point called a "hub" that may be a hub, switch or router.

(a) Star

(b) Hub

(c) Mesh

(d) Ring

**Answer: (a)**

117. Which of the following is NOT a type of arrangement of dimensions?

(a) Chain dimensioning

(b) Parallel dimensioning

(c) Combined dimensioning

(d) Imposed dimensioning

**Answer: (d)**

118. How many types of perspective projection are th e?

(a) 1

(b) 2

(c) 3

(d) 4

**Answer: (c)**

119. _____ views are views that are created by cutting into or through a part or assembly.

(a) Projected

(b) Sectional

(c) Auxiliary

(d) Base

**Answer: (b)**

120. Two or more elements are in _____ if they are connected to the same two nodes and consequently have the same voltage across them.

(a) concurrency

(b) series

(c) parallel

(d) hybrid

**Answer: (c)**

## Discipline2

121. When are two waveforms said to be in phase?

(a) When the phase difference between them is zero.

(b) When the phase difference between them is 90.

(c) When the zero point of the current waveform is before the zero point of the voltage waveform.

(d) When the zero point of the current waveform is after the zero point of the voltage waveform.

**Answer: (a)**

122. NPN and PNP are types of which transistors?

(a) Field-effect transistors

(b) Junction Field Effect Transistor

(c) Bipolar Junction Transistor

(d) Insulated-gate bipolar transistors

**Answer: (c)**

123. _____ is an enterprise designed to perform complex and labour-consuming computational work using electronic computers.

(a) Computer Center

(b) Computer Network

(c) High Performance Computers

(d) Workstations

**Answer: (a)**

124. Computer Center is generally divided in[illegible]any groups?

(a) 1

(b) 2

(c) 3

(d) 4

**Answer: (c)**

125. What is NOT a step in selecting a computer-family?

(a) Identification of possible vendors and manufacturers

(b) Primary elimination of irrelevant candidates

(c) Determination of mandatory requirements

(d) Neglecting vendors' compliance with mandatory requirements

**Answer: (d)**

126. What will be the output of following C code?

```
#include
int main(){
int a=1,b=-1,c=0;
printf("%d",a||b&&c);
return 0;
}
```

(a) 0

(b) 1

(c) -1

(d) Error

**Answer: (b)**

127. What will be the final value in res?

```
#include
int main(){
int val=0,res=200;
if (val&&(res = val+ 5)){ printf("Hello World"); }
return 0;
}
```

(a) 205

(b) 210

(c) 200

(d) 0

**Answer: (c)**

128. What will happen when following program executes?

```
#include
int main(){
if (0=='0')
printf("Yes");
else
printf("No");
return 0;
}
```

(a) Yes

(b) No

(c) Nothing is displayed

(d) Error

**Answer: (b)**

129. Which of the following is NOT a factor influencing demand?

(a) Income of the people

(b) Prices of goods

(c) Tastes of consumers

(d) Government policies

**Answer: (d)**

130. What is the formula to calculate economic efficiency percentage?

(a) (Standard overhead rate × (Actual hours - Standard hours)) × 100

(b) ((Actual hours - Standard hours) × Standard rate) × 100

(c) (Worth /Cost) × 100

(d) (Heat equivalent of mechanical energy produced / Heat equivalent of fuel used) × 100

**Answer: (c)**

131. An industry wants to source its raw materials either from a nearby place or from a far-off place. What factor should NOT be considered in this scenario?

(a) Price of the raw material

(b) Quantity of the raw material

(c) Transportation cost of the raw material

(d) Quality of the raw material

**Answer: (b)**

132. Which of the following is a non primitive and non linear data structure?

(a) Stack

(b) Queue

(c) Integer

(d) Graph

**Answer: (d)**

133. Heap is a good data structure to implement ___ _.

(a) Priority queue

(b) Linear queue

(c) Deque

(d) Binary Search Tree

**Answer: (a)**

134. A _____ list is one, which has both the successor pointer and predecessor pointer in the circular manner.

(a) Single Linked List

(b) Double Linked List

(c) Circular Linked List

(d) Circular Double Linked List

**Answer: (d)**

135. Which of the following is NOT a basic operation on a deque?

(a) enqueue_front

(b) dequeue_front

(c) enqueue_rear

(d) enqueue_top

**Answer: (d)**

136. The function which allows the OS to decide which process gets the processor when and for how much time is called _____.

(a) Traffic controller
(b) Process scheduler
(c) I/O controller
(d) Memory manager

**Answer: (b)**

137. Which of the following is a disadvantage of Network Operating System?

(a) Centralized servers are highly stable
(b) Security is server managed
(c) Regular maintenance and updates are required
(d) Remote access to servers is possible from different locations

**Answer: (c)**

138. The OS ensures that external I/O devices are protected from invalid access attempts. What kind of service is it?

(a) Error Detection
(b) Protection
(c) Resource Allocation
(d) Communication

**Answer: (b)**

139. Microsoft Windows Server 2008 is a type of w n OS?

(a) Batch Operating System
(b) Time-sharing Operating System
(c) Network Operating System
(d) Distributed Operating System

**Answer: (c)**

140. Which of the following device operates at the network layer of the OSI model?

(a) Hubs
(b) Network Interface Card
(c) Routers
(d) Bridge

**Answer: (c)**

## Discipline3

141. Which layer of the OSI model provides reliability through fault detection and recovery?

(a) Network
(b) Transport
(c) Data Link
(d) Session

**Answer: (b)**

142. The computer which serves as a central storage point for files or application programs shared on the network is called _____.

(a) Server
(b) Client
(c) Distributed system
(d) Peer

**Answer: (a)**

143. A group of objects that share common properties for data part and some program part are collectively called as _____.

(a) Nested Objects
(b) Class
(c) Member functions
(d) Structure

**Answer: (b)**

144. How is a class made abstract in C++?

(a) Declaring at least one of its functions as static function
(b) Declaring at least one of its functions as friend function
(c) Declaring at least one of its functions as pure virtual function
(d) Declaring at least one of its functions as virtual function

**Answer: (c)**

145. Which among the following is NOT an application of OOPs?

(a) SQL injection
(b) Object oriented databases
(c) Real – Time systems
(d) AI and expert systems

**Answer: (a)**

146. What are the operators in C++ that are used to format the data display called?

(a) Assignment Operator
(b) Manipulators
(c) Logical Operator
(d) Formatter

**Answer: (b)**

147. Which among the following RAMs transfers data on both edges of the clock?

(a) S-RAM
(b) D-RAM
(c) SDRAM
(d) DDR-SDRAM

**Answer: (d)**

148. Which among the following bus is unidirectional?

(a) Address Bus

(b) Data Bus

(c) Control Bus

(d) Local Bus

**Answer: (a)**

149. Identify the type of addressing from given instruction.
MVI A, 06

(a) Register Addressing

(b) Register Indirect Addressing

(c) Immediate Addressing

(d) Relation Addressing

**Answer: (c)**

150. Which among the following registers stores information that is being sent to, or received from, the memory along the bidirectional data bus?

(a) Index Register

(b) Memory Buffer Register

(c) Memory Address Register

(d) Program Counter

**Answer: (b)**

151. Which among the following is a property of dat se transaction that states "it cannot be divided up any further"?

(a) Atomicity

(b) Consistency

(c) Isolation

(d) Durability

**Answer: (a)**

152. Identify the language from the query.
create table account (account-number char(10), balance integer)

(a) Transaction Control Language

(b) Data Manipulation Language

(c) Data Control Language

(d) Data Definition Language

**Answer: (d)**

153. A _____ DBMS can support multiple users, but the DBMS and the database themselves reside totally at a single computer site.

(a) Single-user systems
(b) Multiuser systems
(c) Centralized
(d) Distributed

**Answer: (c)**

154. Which among the following is NOT a benefit of normalized relational database?

(a) Elimination of redundant data storage.
(b) Close modelling of real world entities, processes, and their relationships.
(c) Makes database more efficient and reliable.
(d) Destructuring of data so that the model is flexible.

**Answer: (d)**

155. Which ring does Linux OS use?

(a) Ring 0&1
(b) Ring 1&3
(c) Ring 0&3
(d) Ring 0,1&3

**Answer: (c)**

156. Which among the following is a disadvantage of Linux OS?

(a) Linux was made to keep on running
(b) Linux is not very user friendly
(c) Linux is portable to any hardware platform
(d) Linux is free

**Answer: (b)**

157. Which among the following Linux commands is used to display a list of files in the current working directory?

(a) ls
(b) apropos
(c) info
(d) pwd

**Answer: (a)**

158. Which shell is used in Linux?

(a) Powershell
(b) Explorer
(c) Command prompt
(d) Bourne Again shell

**Answer: (d)**

159. _____ reduces the size of a digital file by removing bits of information that a computer can recreate when processed.

(a) Rendering
(b) Animation
(c) Digital compression
(d) Production

**Answer: (c)**

160. Which of the following is NOT a category of multimedia?

(a) Linear
(b) Interactive
(c) Real-time
(d) Static

**Answer: (d)**

## Discipline4

161. Which among the following is a multimedia authoring tool?

(a) Adobe Photoshop
(b) Macromedia Director
(c) Windows Media Player
(d) Adobe Premiere

**Answer: (b)**

162. Which protocol is used on the Internet for transmitting real-time data such as audio and video?

(a) Real-Time Transport Protocol
(b) Simple Network Management Protocol
(c) File Transfer Protocol
(d) Simple Mail Transfer Protocol

**Answer: (a)**

163. What is the first layer in Multimedia Framework Architecture?

(a) Presentation Layer
(b) A/V Streams Control Layer
(c) MMHardware CORBA Server Layer
(d) MMHardware and System Software Layer

**Answer: (d)**

164. What Visual Basic control can be used to have a box that displays text that CANNOT be changed by the user?

(a) Form
(b) Label
(c) TextBox
(d) PictureBox

**Answer: (b)**

165. Which statement is used to declare a variable in visual basic?

(a) Var
(b) Sub
(c) Declare
(d) Dim

**Answer: (d)**

166. Which among the following is NOT a Collection class in Visual Basic?

(a) HashMap
(b) ArrayList
(c) BitArray
(d) Stack

**Answer: (a)**

167. Which among the following is NOT a Visual Basic Control?

(a) CheckBox
(b) PictureBox
(c) RadioBox
(d) GroupBox

**Answer: (c)**

168. Which among the following is NOT a type of feas ty while developing a software?

(a) Technical Feasibility
(b) Capital Feasibility
(c) Operational Feasibility
(d) Economic Feasibility

**Answer: (b)**

169. What is the fourth step in DMADV methodology?

(a) Define
(b) Verify
(c) Analyze
(d) Design

**Answer: (d)**

170. What is the second phase in waterfall model?

(a) Requirements analysis and specification
(b) Operation and maintenance
(c) System design
(d) Implementation and unit testing

**Answer: (c)**

171. Which flag in 8086 microprocessor represents the result when the system capacity is exceeded?

(a) Trap flag
(b) Interrupt flag
(c) Auxiliary flag
(d) Overflow flag

**Answer: (d)**

172. How many ways of communication are there in which the microprocessor can connect with the outside world?

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

**Answer: (b)**

173. Which among the following is NOT a feature of 8085 microprocessor?

(a) It is an 8-bit microprocessor
(b) It has an 8-bit address bus
(c) It has 16 bit program counter
(d) Data bus is a group of 8 lines D0-D7

**Answer: (b)**

174. Which of the following is a disadvantage of clie server networks?

(a) Centralized
(b) Scalability
(c) Traffic Congestion
(d) Security

**Answer: (c)**

175. What is the web browser with little functionality of its own called?

(a) Thin client
(b) Thick client
(c) Thin server
(d) Thick server

**Answer: (a)**

176. What is used to lookup for the address of the web server?

(a) DHCP Server
(b) Remote Server
(c) Storage Server
(d) DNS Server

**Answer: (d)**

177. What is the tier between the data tier and the server tier called in multi-tier architecture?

(a) Frontend
(b) Backend
(c) Middleware
(d) Client tier

**Answer: (c)**

178. Which among the following server remembers client data from one request to the next?

(a) Stateless server
(b) Stateful server
(c) DHCP server
(d) DNS Server

**Answer: (b)**

179. What is a program which is used to translate an assembly language program into its machine level language equivalent?

(a) Linker
(b) Compiler
(c) Interpreter
(d) Assembler

**Answer: (d)**

180. What is a type of computer application used to ate a virtual environment?

(a) Virtual Machines
(b) Virtual Box
(c) Kernel
(d) Virtual Disk Image

**Answer: (a)**

## Discipline5

181. What is a computer system in which computation tasks are distributed among several processors?

(a) Layered System
(b) Distributed System
(c) Network Operating System
(d) Real Time System

**Answer: (b)**

182. What is an international organization with the aim of setting standards for HTML use?

(a) World Standards Cooperation
(b) IEEE
(c) W3C Consortium
(d) International Electrotechnical Commission

**Answer: (c)**

186. Which of the following is NOT a characteristic of an entrepreneur?

(a) Unclear objectives
(b) Hard work
(c) Risk bearer
(d) Independence

**Answer: (a)**

187. Which of the following is NOT an economic factor that affects the entrepreneurial growth?

(a) Cryptocurrency
(b) Capital
(c) Labour
(d) Raw material

**Answer: (a)**

188. Which of the following is NOT a type of ownership structure?

(a) Proprietorship
(b) Partnership
(c) Joint Stock Company
(d) Promotership

**Answer: (d)**

189. What type of network is the Internet?

(a) LAN
(b) MAN
(c) WAN
(d) DAN

**Answer: (c)**

190. How many versions of IP addresses are available?

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

**Answer: (b)**

191. What is the process that is used by DHCP for providing the IP Address to the clients/host machine?

(a) SYN
(b) ACK
(c) DORA
(d) FIN

**Answer: (c)**

192. Which port is used by HTTP?

(a) 443
(b) 24
(c) 68
(d) 80

**Answer: (d)**

193. What is a collection of tools for network monitoring and control?

(a) Network management system
(b) Network administration
(c) Network controllers
(d) Service provider

**Answer: (a)**

194. Which of the following is NOT an example of WAN provider?

(a) Bell Atlantic
(b) AT & T
(c) Verizon
(d) Spyder

**Answer: (d)**

195. Which of the following network technology is NC ased on scale?

(a) LAN
(b) WAN
(c) MAN
(d) Multipoint

**Answer: (d)**

196. What does SNMP rely upon?

(a) TCP
(b) BGP
(c) UDP
(d) FTP

**Answer: (c)**

197. Which among the following multiple access techniques divides the radio spectrum into time slots, and in each slot, only one user is allowed to either transmit or receive data?

(a) FDMA
(b) TDMA
(c) SDMA
(d) CDMA

**Answer: (b)**

198. What is a technique by which the Uplink and the Downlink transmissions are carried over the same frequency by using synchronized time intervals?

(a) Time Division Duplex
(b) Channel Separation
(c) Channel Raster
(d) Frequency Division Duplex

**Answer: (a)**

199. What is NOT a component of GSM network?

(a) Base Station Subsystem
(b) Network Switching Subsystem
(c) Mobile Station
(d) Packet Control Function

**Answer: (d)**

200. The source is converted by _____ into an electrical waveform referred to as the baseband signal or message signal.

(a) input transducer
(b) output transducer
(c) transmitter
(d) receiver

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

## General Ability

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

## Arithmetic Ability

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | **(d)** | 42 | **(a)** | 43 | **(d)** | 44 | **(c)** | 45 | **(c)** | 46 | **(c)** |
| 47 | **(d)** | 48 | **(b)** | 49 | **(b)** | 50 | **(c)** | 51 | **(b)** | 52 | **(a)** |
| 53 | **(d)** | 54 | **(a)** | 55 | **(d)** | 56 | **(d)** | 57 | **(b)** | | |

## General English

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | **(c)** | 82 | **(b)** | 83 | **(c)** | 84 | **(a)** | 85 | **(d)** | 86 | **(c)** |
| 87 | **(d)** | 88 | **(d)** | 89 | **(a)** | 90 | **(b)** | 91 | **(a)** | 92 | **(b)** |
| 93 | **(b)** | 94 | **(b)** | 95 | **(d)** | 96 | **(d)** | 97 | **(d)** | 98 | **(d)** |
| 100 | **(d)** | | | | | | | | | | |

## Discipline1

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | **(b)** | 102 | **(a)** | 103 | **(d)** | 104 | **(b)** | 105 | **(c)** | 106 | **(d)** |
| 107 | **(b)** | 108 | **(a)** | 110 | **(b)** | 111 | **(a)** | 112 | **(b)** | 113 | **(d)** |
| 114 | **(b)** | 115 | **(c)** | 116 | **(a)** | 117 | **(d)** | 118 | **(c)** | 119 | **(b)** |
| 120 | **(c)** | | | | | | | | | | |

## Discipline2

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 121 | **(a)** | 122 | **(c)** | 123 | **(a)** | 124 | **(c)** | 125 | **(d)** | 126 | **(b)** |
| 127 | **(c)** | 128 | **(b)** | 129 | **(d)** | 130 | **(c)** | 131 | **(b)** | 132 | **(d)** |
| 133 | **(a)** | 134 | **(d)** | 135 | **(d)** | 136 | **(b)** | 137 | **(c)** | 138 | **(b)** |
| 139 | **(c)** | 140 | **(c)** | | | | | | | | |

## Discipline3

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 141 | **(b)** | 142 | **(a)** | 143 | **(b)** | 144 | **(c)** | 145 | **(a)** | 146 | **(b)** |
| 147 | **(d)** | 148 | **(a)** | 149 | **(c)** | 150 | **(b)** | 151 | **(a)** | 152 | **(d)** |
| 153 | **(c)** | 154 | **(d)** | 155 | **(c)** | 156 | **(b)** | 157 | **(a)** | 158 | **(d)** |
| 159 | **(c)** | 160 | **(d)** | | | | | | | | |

## Discipline4

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 161 | **(b)** | 162 | **(a)** | 163 | **(d)** | 164 | **(b)** | 165 | **(d)** | 166 | **(a)** |
| 167 | **(c)** | 168 | **(b)** | 169 | **(d)** | 170 | **(c)** | 171 | **(d)** | 172 | **(b)** |
| 173 | **(b)** | 174 | **(c)** | 175 | **(a)** | 176 | **(d)** | 177 | **(c)** | 178 | **(b)** |
| 179 | **(d)** | 180 | **(a)** | | | | | | | | |

## Discipline5

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 181 | **(b)** | 182 | **(c)** | 186 | **(a)** | 187 | **(a)** | 188 | **(d)** | 189 | **(c)** |
| 190 | **(b)** | 191 | **(c)** | 192 | **(d)** | 193 | **(a)** | 194 | **(d)** | 195 | **(d)** |
| 196 | **(c)** | 197 | **(b)** | 198 | **(a)** | 199 | **(d)** | 200 | **(a)** | | |