PREVIOUS YEAR PAPER

DSSSB Technical Assistant (Electronic & Communication) 2021 — 8 September 2021, Shift 2

DSSSB Other Posts · 8 September 2021 · Shift 2

168 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: 32 (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 September 2021, Shift 2. 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-electronic-communication-8-sep-shift-2/

General Awareness

1. The Qila-i-Kuhna mosque inside the Purana Qila complex in Delhi was built by _____.
   (a) Akbar
   (b) Sher Shah Suri
   (c) Jahangir
   (d) Babur
   Answer: (b)

2. The Shore Temple was built by the _____ dyna .
   (a) Pallava
   (b) Chalukya
   (c) Chola
   (d) Rashtrakuta
   Answer: (a)

3. As announced in the Budget 2021, _____ more agricultural mandis will be integrated with e-NAM.
   (a) 1000
   (b) 1500
   (c) 2000
   (d) 2500
   Answer: (a)

4. _____ became the first bank which started Universal Banking in India.
   (a) State Bank of India
   (b) HSBC Bank
   (c) ICICI Bank
   (d) Axis bank
   Answer: (c)

5. Which among the following plant kingdoms are divided into two - Monocots and Dicots?

(a) Thallophytes
(b) Bryophytes
(c) Angiosperms
(d) Pteridophytes

Answer: (c)

6. "Xerophthalmia" is caused due to the deficiency in which of the following Vitamins?

(a) A
(b) B
(c) C
(d) D

Answer: (a)

7. Cuttack is located on the banks of which of the following rivers?

(a) Krishna
(b) Yamuna
(c) Mahanadi
(d) Sutlej

Answer: (c)

8. Mount Vinson Massif is the highest mountain of __ ____.

(a) Africa
(b) Antarctica
(c) Europe
(d) South America

Answer: (b)

9. The Nizam of Hyderabad was the first to accept a well-framed subsidiary alliance in _____ with the British.

(a) 1751
(b) 1796
(c) 1798
(d) 1782

Answer: (c)

10. Who defeated Rana Sanga in the Battle of Khanwa in 1527?

(a) Shah Jahan
(b) Humayun
(c) Akbar
(d) Babur

Answer: (d)

11. When was the Lucknow Pact signed between the Indian National Congress and the Muslim League (AIMLM)?

(a) 1916
(b) 1904
(c) 1912
(d) 1907

Answer: (a)

12. _____ won the International Booker Prize 2021.

(a) The Dangers of Smoking in Bed
(b) At Night All Blood Is Black
(c) When We Cease to Understand the World
(d) The Employees

Answer: (b)

13. Who among the following hosted the 66th Vimal Elaichi Filmfare Awards 2021?

(a) Rajkummar Rao and Karan Johar
(b) Karan Johar and Riteish Deshmukh
(c) Rajkummar Rao and Riteish Deshmukh
(d) Rajkummar Rao and Ayushmann Khurana

Answer: (c)

14. Mercury will be _____ first stealth naval war[illegible] that will be fully equipped with stealth technology making it hard to detect it by enemy ves[illegible]s.

(a) China's
(b) France's
(c) Russia's
(d) United States of America's

Answer: (c)

15. Which among the following states ranked 1st in the Anemia Mukt Bharat Index 2021 for financial year 2020-2021?

(a) West Bengal
(b) Himachal Pradesh
(c) Odisha
(d) Madhya Pradesh

Answer: (d)

16. The Indian Institute of Technology Indore ranked _____ in the Times Higher Education Asia university rankings 2021.

(a) 78th
(b) 37th
(c) 55th
(d) 96th

Answer: (a)

17. Which among the following Constitutional Amendment deals with reorganisation of Mizoram into a Union Territory with a legislature and council of ministers?

(a) 14th
(b) 32nd
(c) 41st
(d) 27th

Answer: (d)

18. Which among the following features of the Indian Constitution was NOT borrowed from the United States of America?

(a) Fundamental Rights
(b) Bicameralism
(c) Judicial review
(d) Impeachment of the President

Answer: (b)

19. Who among the following cricketer has launched an experiential learning portal for Cricket coaching named CRICURU?

(a) Sachin Tendulkar
(b) Virender Sehwag
(c) Virat Kohli
(d) Mahendra Singh Dhoni

Answer: (b)

20. The International Olympic Committee (IOC) Executive Board on June 10, 2021 decided to propose Brisbane for hosting the _____ Olympics.

(a) 2032
(b) 2028
(c) 2024
(d) 2030

Answer: (a)

General Ability

21. Complete the following series.
TUV, AAA, HGF, OMK, VSP, ?

(a) WCD
(b) CYU
(c) DXV
(d) DYV

Answer: (b)

22. Arrange the given words in the sequence in which they occur in the dictionary.
1. Criteria
2. Crevice
3. Criminal
4. Critical
5. Crimper

(a) 2,5,1,2,4

(b) 1,5,3,2,4

(c) 2,3,5,1,4

(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) Small : Tiny

(b) Broad : Narrow

(c) Heavy : Weighty

(d) Large : Massive

Answer: (b)

24. 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) Chicken pox

(b) AIDS

(c) Cholera

(d) Flu

Answer: (c)

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.
Zoology : Animals :: Oology : ?

(a) Birds

(b) Insects

(c) Eggs

(d) Names

Answer: (c)

26. Select the triad that is related on the same basis to the triad given in the question.
Village : Town : City

(a) Continent : Country : State

(b) School : College : University

(c) Transistor : Radio : Television

(d) Calf : Cow : Ox

Answer: (b)

27. If TREE is coded as 20-18-5-5, then what is SCOOTER coded as?

(a) 12-5-5-13-20-18-19

(b) 19-3-15-15-20-5-18

(c) 21-13-3-15-5-5-18

(d) 5-19-18-21-1-5-3

Answer: (b)

28. If C = 3, CAT = 24, then MANGO = ?

(a) 12

(b) 50

(c) 29

(d) 52

Answer: (b)

29. Annie is Bobby's sister. Carla is Bobby's mother. Danny is Carla's father. Esha is Danny's mother. How is Annie related to Danny?

(a) Maternal Grand father

(b) Paternal Grandmother

(c) Daughter

(d) daughter's daughter

Answer: (d)

30. Rina, Seema, Mohini and Sheila are sitting aroun square table. Rina is to the immediate right of Seema. Mohini is to the immediate left of Sheila. ich of the persons mentioned in the options are sitting opposite to each other?

(a) Seema - Sheila

(b) Rina - Sheila

(c) Rina - Seema

(d) Mohini - Rina

Answer: (b)

31. 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) : Red colour of blood is due to haemoglobin.
Reason (R) : Haemoglobin is a red pigment.

(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)

32. In the question three statements are given, followed by three conclusions, I, II and III. 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 : Nail polish is a cosmetic.
Statement 2 : No cosmetic is powder.
Statement 3 : Some powders are medicine.
Conclusion I : Some powder are cosmetics.
Conclusion II : Some medicines are nail polishes.
Conclusion III : Some cosmetics are nail polishes.

(a) Only conclusion I follows.

(b) Only conclusion II follows.

(c) Only conclusion III follows.

(d) Both conclusion I and II follow.

Answer: (c)

33. Complete the following number series.
9, 13, 21, 37, 69, _____

(a) 99

(b) 164

(c) 133

(d) 163

Answer: (c)

34. Which arithmetical signs should be in place of @ make the below equation mathematically CORRECT?
7 @ 7 @ 2 @ 1 = 12

(a) ×, -, ÷

(b) +, -, ×

(c) ×, -, +

(d) +, ×, -

Answer: (b)

Arithmetic Ability

41. What is the largest 3 digit number divisible by 6?

(a) 990

(b) 996

(c) 999

(d) 994

Answer: (b)

42. The H.C.F. of two numbers is 21. What is the product of the minimum numbers combination?

(a) 441
(b) 2646
(c) 882
(d) 1323

Answer: (a)

43. There's a sale of 35% in an outlet with listed price ₹ 357.5. What is the actual sale price of the product?

(a) ₹ 1020
(b) ₹ 500
(c) ₹ 550
(d) ₹ 950

Answer: (c)

44. An orange seller had sold 35% of his oranges and still has 780 oranges. How much oranges he had originally?

(a) 900
(b) 1100
(c) 1200
(d) 1000

Answer: (c)

45. In a class representative election, 20% of the votes were invalid. Out of valid votes the first candidate got 60%. If the total number of votes are 200, what is the number of votes that second student got?

(a) 64
(b) 96
(c) 160
(d) 40

Answer: (a)

46. A vendor bought 20 candies for ₹ 5. How much he needs to sell per rupee to get a profit of 25% ?

(a) 7
(b) 6
(c) 6.25
(d) 3.2

Answer: (d)

47. The profit is 200% of the cost. If the Cost Price increases by 130% but Selling Price remains constant, approximately what percentage of the selling price is the profit?

(a) 23.33%

(b) 33.33%

(c) 66.67%

(d) 45.45%

Answer: (a)

48. The two numbers are 30% and 60% more than the third number. What is the ratio of all the three numbers?

(a) 10 : 13 : 16

(b) 10 : 04 : 07

(c) 07 : 10 : 04

(d) 07 : 04 : 10

Answer: (a)

49. A sum of money is distributed among W, X, Y, Z in the proportion of 3 : 10 : 8 : 4. If Y got ₹ 2200 less than three times of X, what is the share of one-third of W?

(a) ₹ 300

(b) ₹100

(c) ₹ 400

(d) ₹ 200

Answer: (b)

50. The compound interest on a sum of mo[illegible] is ₹ [illegible]28. The duration is 2 years. The interest rate is 8%. What is the sum of money?

(a) ₹ 2641.87

(b) ₹ 2853.22

(c) ₹ 20000

(d) ₹ 41600

Answer: (c)

51. Aman's capital is 1/6th more than Biresh's capital. Biresh invested for 15% p.a. compounded annually for 2 years. At what simple interest should Aman invest the money for 2 years so that they have the same amount of capital at the end?

(a) 27.14%

(b) 6.68%

(c) 10.50%

(d) 15.50%

Answer: (b)

52. A walks at a speed of 5 km/h and B walks at a speed of 6 km/h. They both stand at the ends of the street that is 1.1 Km long. In how much time will they cross each other

(a) 6 mins
(b) 60 mins
(c) 60 seconds
(d) 300 seconds

Answer: (a)

53. 'B' rides a cycle for 10 minutes at 24 km/h. After that he walks for 20 more minutes at a speed of 90 km/h. What is the distance covered by 'B'?

(a) 7 km
(b) 34 km
(c) 30 km
(d) 64 km

Answer: (b)

54. X and Y take 10 days to complete the work together. If Y takes 20 days to complete the work alone, how long will X take to complete the work alone?

(a) 15 days
(b) 20 days
(c) 10 days
(d) 5 days

Answer: (b)

55. A can complete a work in 10 days and B can complete the work in 15 days. If they both work for 2 days, then how much work is left?

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

Answer: (b)

56. A cuboid has length-width-height as 10 cm-5 cm-3 cm. The cuboid is cut to a cube of side 3 cm. What will be the total surface area of the new cube that is cut?

(a) 36
(b) 54
(c) 9
(d) 45

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'.
John recalls Sarah and I as girls/ who jumped out of the car and were chasing after/ the policeman to ask for directions.

(a) John recalls Sarah and I as girls

(b) who jumped out of the car and were chasing after

(c) the policeman to ask for directions.

(d) No Error

Answer: (a)

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'.
It would be stupid to write him of/ as a back number on the strength/ of that Kempton run alone.

(a) It would be stupid to write him of

(b) as a back number on the strength

(c) of that Kempton run alone.

(d) No Error

Answer: (a)

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.
She alone has the presence of mind to (remove a bur g cinder off a table full of explosives).

(a) remove a burning cinder from a table full of e osives

(b) remove a burning cinder of a table full of ex sives

(c) remove a burning cinder in a table fu.. osives

(d) No correction required

Answer: (a)

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.
He had approached the headmaster in advance of the trial and was (told that either the children or their parents wished) to be involved.

(a) telling that neither the children or their parents wished

(b) telling that either the children or their parents wished

(c) told that neither the children nor their parents wished

(d) No correction required

Answer: (c)

85. Fill in the blank with the most appropriate choice.
Because we expected the president to have a great sense of _____, we were all shocked when his wrongdoings became public knowledge.

(a) propriety
(b) impropriety
(c) insobriety
(d) inebriety

Answer: (a)

86. Fill in the blank with the most appropriate choice.
Immediately following the terrorist attack, pilots had to observe a period of _____ where they could not depart from the airport.

(a) clairvoyance
(b) flamboyance
(c) buoyance
(d) abeyance

Answer: (d)

87. Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence.
The severity of the
P. succeeded in reaching the
Q. the realm if he
R. a felon's right to abjure
S. law was modified by
sanctuary of a church.

(a) SPRQ
(b) SQRP
(c) SPQR
(d) SRQP

Answer: (d)

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

(a) confident
(b) communicative
(c) restrained
(d) wholesome

Answer: (c)

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

(a) impolite
(b) solemn
(c) humble
(d) upholding

Answer: (a)

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

(a) nuansce
(b) nuannsce
(c) nuance
(d) nuence

Answer: (c)

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

(a) relentless
(b) relantless
(c) ralantless
(d) ralentless

Answer: (a)

92. Select the most appropriate meaning of the given idiom.
Beat a dead horse

(a) voiding the main topic, not speaking directly about the issue
(b) Depend on, count on
(c) A mistake made in something you are trying to achieve
(d) To force an issue that has already ended

Answer: (d)

93. Select the most appropriate meaning of the given idiom.
Don’t look a gift horse in the mouth

(a) Someone who takes a position for the sake of argument without believing in that
(b) The hottest day of the summer season
(c) Don’t rely on it until you sure of it
(d) When someone gives you a gift, don’t be ungrateful

Answer: (d)

94. Select the most appropriate 'one word ' for the expressions given below.
Major changes or a period of change that causes a lot ofconflict, confusion, anger, etc.

(a) Uxoricide
(b) Utopia
(c) Upheaval
(d) Utilitarian

Answer: (c)

95. Select the most appropriate 'one word ' for the expressions given below.
Crime of trying to overthrow one's country's government or of helping one's country's enemies during war

(a) Torrent
(b) Truculent
(c) Tyranny
(d) Treason

Answer: (d)

96. On which vessel is the scene taking place?

(a) A yacht
(b) A boat
(c) A ship
(d) A plane

Answer: (a)

97. Who brought out the game of dominoes

(a) The Lawyer
(b) The Director
(c) The Accountant
(d) Marlow

Answer: (c)

98. What does the line "The water shown pacifically mean"?

(a) The water shining had a calm feeling to it.
(b) The sun was setting hence the water shown on the left.
(c) The water shining had a chaotic feeling to it.
(d) The sun was setting hence the water shown on the right.

Answer: (a)

100. Where on the vessel is the scene taking place?

(a) The cabin
(b) The deck
(c) The cleats
(d) The draft

Answer: (b)

Discipline1

101. Choose the correct verb forms
I _____ cartoon with my family in the evening.

(a) watches
(b) watch
(c) watched
(d) watching

Answer: (b)

102. Identify part of speech:
She looks beautiful .

(a) Adjective
(b) Adverb
(c) Noun
(d) Conjunction

Answer: (a)

103. The eigenvalues of a matrix 4*4 [A] are given as -2,-8,10 and 9. The |det (A)| is?

(a) 546
(b) 1140
(c) 1440
(d) 1325

Answer: (c)

104. Which rays have high frequency electr[illegible]c waves occuring when fast electrons imping on target?

(a) UV- rays
(b) Gamma rays
(c) X-rays
(d) Radio waves

Answer: (c)

105. A beam of _____ light consists of electric field waves moving in same direction with their electric vectors pointed in random orientations about the axis of propagation.

(a) Electromagnetic waves
(b) Polarized
(c) Unpolarized
(d) Matter waves

Answer: (b)

106. By which law, force on one charge exerts on the other charge will determine?

(a) Coulomb's law

(b) Lenz's law

(c) Ohm's law

(d) Faraday's law

Answer: (a)

107. According to Faraday's Law of Electrolysis, which option is CORRECT?

(a) Mass of an ion liberated during electrolysis is directly proportional to the quantity of electricity passed through electrolyte

(b) Mass of an ion liberated during electrolysis is inversely proportional to the quantity of electricity passed through electrolyte

(c) Mass of an ion liberated during electrolysis is directly proportional to chemical equivalents passed through electrolyte

(d) Mass of an ion liberated during electrolysis is inversely proportional to chemical equivalents passed through electrolyte

Answer: (a)

109. German scientist Hahn and Strasman bombarded uranium atom with neutrons to obtain 2 elements with atomic number of _____.

(a) 42 and 80

(b) 50 and 89

(c) 55 and 30

(d) 56 and 36

Answer: (d)

110. Amount of load that can be lifted by giving efforts are _____.

(a) always greater than ideal load

(b) always less than ideal load

(c) greater than and equal to ideal load

(d) less than and equal to ideal load

Answer: (b)

111. Which pulley is used to change the direction of applied force?

(a) Single fixed pulley

(b) Single moveable pulley

(c) Compound pulley

(d) Mixed pulley

Answer: (a)

112. Which type of support offer reaction normal to the surface upon which they are placed?

(a) Roller support

(b) Fixed support

(c) Hinged support

(d) Simple support

Answer: (a)

113. The moment of a force P acting at a point A (1,-4) about a point B (-5,-4) is zero. The angle made by force with X axis is _____.

(a) 90 degree

(b) 0 degree

(c) 45 degree

(d) 60 degree

Answer: (b)

114. What is conserved when a bullet hits and gets embedded in a solid block on a smooth horizontal surface?

(a) Only K.E

(b) Only P.E

(c) Both momentum and K.E

(d) Only momentum

Answer: (d)

115. Which law states that current is proportional to tage?

(a) Coulomb's law

(b) Ohm's law

(c) Kirchhoff's law

(d) Ampere's law

Answer: (b)

116. Leakage field inducing eddy current in tank water and conductor causes _____.

(a) Stray loss

(b) Copper loss

(c) Dielectric loss

(d) Core loss

Answer: (a)

117. Which element stores the electric charge for prescribed duration of time?

(a) Active element

(b) Passive element

(c) Power element

(d) Active and passive element

Answer: (b)

118. Which diodes are mostly used as voltage reference diodes?

(a) Tunnel Diode

(b) Step recovery Diode

(c) Varactor diode

(d) Zener Diode

Answer: (d)

119. _____ can be used to display decimal numerals in various electronic devices like calculators, public information systems.

(a) 6 segment-display

(b) 5 segment-display

(c) 7 segment-display

(d) 9 segment-display

Answer: (c)

120. LM 317 IC is capable of providing an excess current of _____.

(a) 2 A

(b) 2.5 A

(c) 1.5 A

(d) 9A

Answer: (c)

Discipline2

121. 7906 is fixed regulator of _____.

(a) (-6) V

(b) (-5) V

(c) (-4) V

(d) (-9) V

Answer: (a)

122. Which of the following is NOT the style of arrangement of dimensions in engineering graphics?

(a) Chain dimensioning

(b) Parallel dimensioning

(c) Bend dimension

(d) Combined dimension

Answer: (c)

123. A line perpendicular to vertical plane (VP) has no horizontal plane (HT) because the line is _____ to the horizontal plane (HP).

(a) Inclined

(b) Parallel

(c) Horizontal

(d) Perpendicular

Answer: (b)

124. Vertical Plan and Horizontal Plan are called as _____.

(a) First Angle Plans

(b) Orthographic plans

(c) Principal planes of projection

(d) Tangent plans

Answer: (c)

125. According to lettering and dimensioning practices in engineering drawing, the space between letters should be approximately equal to _____.

(a) 1/2 h

(b) 1/5 h

(c) 1/9 h

(d) 1/8 h

Answer: (b)

126. Which patterns are used where a rapid production of small and accurate casting is desired on a large scale?

(a) Match plate patterns

(b) Sweep pattern

(c) Pattern with loose pieces

(d) Multi piece pattern

Answer: (a)

127. In which lathe there is no feed box, carriage or d screw?

(a) Bench lathe

(b) Production Lathe

(c) Engine lathe

(d) Speed lathe

Answer: (d)

128. In facing operation tool, what is the flat surface angle to the rotational axis of the job?

(a) 90 degree

(b) 45 degree

(c) 60 degree

(d) 120 degree

Answer: (a)

129. What is used to cut threads on a round bar of a metal?

(a) Stock

(b) Thread

(c) Dies

(d) Tap

Answer: (c)

130. Which type of thermocouple is used as general purpose thermocouple?

(a) Type K
(b) Type J
(c) Type E
(d) Type N

Answer: (a)

131. Thermistor acts as a transducer _____.

(a) If it's temperature coefficient is positive
(b) If it's temperature coefficient is negative
(c) If it's temperature coefficient is 0
(d) If it's temperature coefficient is same

Answer: (b)

132. Which of the following cables has impedance value in range of 100-150 ohm?

(a) Twisted pair cable
(b) Shielded cables
(c) Untwisted pair cable
(d) Coaxial cable

Answer: (a)

133. Roll off is also called as _____.

(a) Attenuation rate
(b) Roll in
(c) Envelope delay
(d) Ripple

Answer: (a)

134. Calculate the cut-off or "breakpoint" frequency (ƒc) for a simple passive high pass filter consisting of an 50 pF capacitor connected in series with a 200 kΩ resistor.

(a) 18.3 kHz
(b) 14.5 kHz
(c) 16.3 kHz
(d) 15.9 kHz

Answer: (d)

135. The flow of leakage current between the conductors is called _____.

(a) Line conductance
(b) Shunt conductance
(c) Molar conductance
(d) Resistance

Answer: (b)

136. How much energy in joules is required to move a charge of 9C through a difference in potential of 5 V?

(a) 1.8 J
(b) 30 J
(c) 45 J
(d) 64 J

Answer: (c)

137. Which filter has a practical slope of -20 dB per decade, using single resistor and capacitor?

(a) Medium-Pass Filter
(b) High-Pass Filter
(c) Low-Pass Filter
(d) Band-Pass filter

Answer: (c)

138. A pair of terminals are called _____.

(a) Port
(b) Ideal
(c) PIV
(d) Tilt

Answer: (a)

139. Variable sensitivity is used to _____.

(a) Avoid heating of the RF amplifier in sender
(b) Avoid overloading of the IF amplifie[illegible]r
(c) Avoid overloading of the RF amplifier in re[illegible]ver
(d) Avoid overloading of the IF amplifier in sender

Answer: (b)

140. If you are speaking normally, then which one of the following frequency is associated with you?

(a) High Frequency (HF)
(b) Voice Frequency (VF)
(c) Extremely low frequency (ELF)
(d) Very High Frequency (VHF)

Answer: (b)

Discipline3

141. Repeater works as a transponder in _____.

(a) Optical fiber Communication
(b) Satellite Communications
(c) Carrier Communication
(d) Telephone Communication

Answer: (b)

142. Which code was used to encode data on punched cards?

(a) ASCII code
(b) Hollerith code
(c) Parity Code
(d) Repetition Code

Answer: (b)

143. Which code is used in the transmission of digital signals to minimize the occurrence of errors?

(a) Grey code
(b) Excess code
(c) Unicode
(d) Alphanumeric codes

Answer: (a)

144. Maximum operating frequency of Zilog Z80 Microprocessor is _____.

(a) 2 MHz
(b) 1 MHz
(c) 2.5 MHz
(d) 1.5 MHz

Answer: (c)

145. In which of the following gates the inputs and outputs can be connected in parallel to a common bus line?

(a) Schmitt Gates
(b) AND-OR-INVERT Gates
(c) Tristate Logic Gates
(d) Special Output Gates

Answer: (c)

146. In oscilloscope, if you wish to read the amplitude voltage directly then you must check _____.

(a) The position of 1 V (normally halfway up the screen)
(b) The position of 0 V (normally halfway down the screen)
(c) The position of 1 V (normally halfway down to the screen)
(d) The position of 0 V (normally halfway up the screen)

Answer: (d)

147. [3K3] indicates _____.

(a) 313 k
(b) 3.3 k
(c) 3/3 k
(d) 33 k

Answer: (b)

148. Ceramic capacitors are used as _____.

(a) solid dielectrics

(b) liquid dielectrics

(c) gaseous dielectrics

(d) semi-solid dielectrics

Answer: (a)

149. What is the output of this code?

```
#include
int main()
{
int *ptr, x = 2;
ptr = &x;
*ptr += 1;
printf("%d,%d", *ptr, x); }
```

(a) 3,2

(b) 2,2

(c) 3,3

(d) 2,3

Answer: (c)

150. What is the output of this code?

```
#include
int main()
{
int i = 062, j = 65;
printf ("%d %d", i, j); }
```

(a) 53,65

(b) 50, 65

(c) 51,65

(d) 25,65

Answer: (b)

151. Which of the following is the CORRECT identifier?

(a) X_1

(b) 1

(c) $xy

(d) @X

Answer: (a)

152. What is the output of this code?
#include
using namespace std; int main() {
for (int i = 1; i <= 5; i++) { if (i == 4) {
break;
}
cout << i << endl;
}
return 0;
}

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

Answer: (b)

153. Which of this is NOT an objective of Industrial Management?

(a) Maintaining a good relationship between workers and management
(b) Keeping workers away from all sorts of strikes and lockouts
(c) Not giving chance to the workers to participate in management and decision making process
(d) Taking care of the industrial conflicts and strikes and avoiding them by developing mutual relations among people

Answer: (c)

154. A maintenance work that is carried out to iden isolate, and rectify a fault and get back to the operational condition is called _____.

(a) Batch maintenance
(b) Corrective maintenance
(c) Preventive maintenance
(d) Operational maintenance

Answer: (b)

155. Entrepreneurs who works on a new technique or new product is a/an _____.

(a) Fabian entrepreneur
(b) Innovative entrepreneur
(c) Initiative entrepreneur
(d) Instigated entrepreneur

Answer: (b)

156. Which of the following is NOT an importance of entrepreneurship?

(a) Economic activity
(b) Dynamic activity
(c) Risk bearing
(d) No idea generation

Answer: (d)

157. Low frequencies cannot be transmitted to long distances. Therefore, they are superimposed on a high frequency carrier signal by a process known as _____.

(a) Frequency booster
(b) Demodulation
(c) Amplification
(d) Modulation

Answer: (d)

158. What is the role of intermediate frequency (IF) stage in receiver?

(a) To change carrier frequency into a lower frequency
(b) To change carrier frequency into a higher frequency
(c) To restore carrier frequency from higher frequency
(d) To restore carrier frequency from lower frequency

Answer: (a)

159. Frequency bands for mobile to base station is in range of _____.

(a) 88-108 MHz
(b) 896-901 MHz
(c) 54-172 MHz
(d) 96-101 MHz

Answer: (b)

160. The amount of force experienced by the coil in permanent magnet moving coil instruments (PMMC) is proportional to _____.

(a) the current passing through the ma
(b) the current passing through the coil
(c) the voltage passing through the coil
(d) the current passing through the ammeter

Answer: (b)

Discipline4

161. Vector voltmeter is _____.

(a) Only Amplitude measuring device
(b) Amplitude and Current measuring device
(c) Amplitude and Phase measuring device
(d) Amplitude and Pitch measuring device

Answer: (c)

162. In a Digital Voltmeter, output signal of measured voltage is available as a _____.

(a) Hexadecimal
(b) Unsigned integer
(c) BCD
(d) Decimals

Answer: (c)

163. Which DC bridge is used to measure very low resistance (typically less than 1/10 of an ohm)?

(a) Kelvin Bridge

(b) Whitestone's Bridge

(c) Wien's Bridge

(d) Maxwell's Bridge

Answer: (a)

164. Which construction management function can be achieved by establishing good communication between the employees and the management?

(a) Organizing

(b) Directing

(c) Controlling

(d) Planning

Answer: (b)

165. Which sector does NOT comes under the expenditure heads in the revenue account section in construction management?

(a) General services

(b) Social and Community services

(c) Grants-in-aid and contributions

(d) Tax revenue

Answer: (d)

166. Which of the following is used only to ensure s urate activity numbers and maintain the CORRECT logic of the network in construc ma ement?

(a) Earliest Finish Time (EFT)

(b) Earliest Start Time (EST)

(c) Dummies

(d) Duration

Answer: (c)

167. In construction management and accounts, an estimate whose sanctioned amount exceeds a certain fixed limit is known as _____.

(a) Major estimate

(b) Detailed Estimate

(c) Petty Work estimate

(d) Administrative approval estimate

Answer: (a)

168. How many octaves wide is one musical scale?

(a) 3

(b) 0

(c) 1

(d) 2

Answer: (c)

169. In audio and video system, a interval of 1 : 2 is called as _____.

(a) Overtone
(b) Pitch
(c) Octave
(d) Bandwidth

Answer: (c)

170. In audio and video system the louder sound suppresses the weaker sound, this phenomenon is called _____.

(a) Masking effect
(b) Haas effect
(c) Precedence effect
(d) Cocktail party effect

Answer: (a)

171. Which one of these causes bending around edges?

(a) Refraction
(b) Diffraction
(c) Reverberation
(d) Deflection

Answer: (b)

172. When will interlaced error occur in interlaced sc ning?

(a) If the line of even field are not exactly in mid of the line of even field
(b) If the line of odd field are not exactl of the line of odd field
(c) If the line of even field are not exactly in m dle of the line of odd field
(d) If the line of even field are exactly in middle of the line of odd field

Answer: (c)

173. By which method TV picture tube is demagnetized automatically each time when receiver is on?

(a) Automatic degaussing
(b) External degaussing
(c) Spliter degaussing
(d) Combined degaussing

Answer: (a)

174. The photolayer of a TV camera tube has a thickness of about _____.

(a) 0.001 cm
(b) 0.01 cm
(c) 0.0001 cm
(d) 0.1 cm

Answer: (c)

175. By what proportion of (Vr,Vg,Vb), a single voltage proportional to luminance at various part of pictures obtained?

(a) 31 : 01 : 20

(b) 30 : 11 : 56

(c) 30 : 29 : 50

(d) 30 : 59 : 11

Answer: (d)

176. RST 7.5 is _____.

(a) Vectored interrupt

(b) Polled Interrupt

(c) Software Interrupt

(d) Application Interrupt

Answer: (a)

177. Which instruction is used to check the bit of the condition flags?

(a) PUSH

(b) BT

(c) CHECK

(d) TB

Answer: (b)

178. What does a microprocessor do in case of interruption?

(a) Stop execution of Instruction

(b) Acknowledge interrupt and continue

(c) Acknowledge interrupt and waits for the next Instruction

(d) Acknowledges interrupt and branches to service subroutine

Answer: (d)

179. Which of the following functions CANNOT be performed by a microprocessor?

(a) Addition

(b) Subtraction

(c) Multiplication

(d) Thinking

Answer: (d)

180. What is the role of glass cladding in optical fiber?

(a) It provides a lower refractive index at the core interface in order to cause reflection within the core

(b) It provides a lower refractive index at the core interface in order to bend the electron

(c) It provides a lower refractive index at the core interface in order to cause reflection out of core

(d) It refract back the light and confines it to the core

Answer: (a)

Discipline5

181. Which one of the following cables is best for areas with high lightning?
(a) Optical fiber
(b) Copper wire
(c) Aluminium wire
(d) Zinc wire
Answer: (a)

182. Which of the following in NOT a guided media?
(a) Coaxial Cable
(b) Radio Wave
(c) Twisted Pair Cable
(d) Optical fiber cable
Answer: (b)

183. Which radio signal has a worldwide reach?
(a) AM
(b) FM
(c) TV
(d) Short Wave
Answer: (d)

184. Data Segment register which is known as FS ar GS register is available in _____.
(a) 8088
(b) 80286
(c) 80386
(d) 8086
Answer: (c)

185. In memory Interfacing the speed of Hard disk is _____.
(a) Fast
(b) Slow
(c) Zero
(d) Infinite
Answer: (b)

186. Which of these layers has more privilege?
(a) System services
(b) OS
(c) Kernel
(d) Application Software
Answer: (c)

187. Tri-state Buffer is used to _____.

(a) Connect the input device to data bus

(b) Connect the output device to data bus

(c) Connect the memory to data bus

(d) Connect the input device to output devices

Answer: (a)

188. In which device, Red and infrared light is used to measure SpO ?
2

(a) Thermometer

(b) Spirometer

(c) Pulse Oximeter

(d) Sphygmomanometer

Answer: (c)

189. Phonocardiograph (PCG) is an instrument used for recording _____.

(a) the electrical activity of the brain

(b) the electrical activity of the heart

(c) the sounds connected with the pumping action of the Heart

(d) and analyzing the working of the heart

Answer: (c)

190. Which of the following option is used to diagnos rain tumor?

(a) Phonocardiograph (PCG)

(b) Electrocardiogram (ECG)

(c) Electroencephalogram (EEG)

(d) Crystal or moving coil Microphone

Answer: (c)

191. A continuous-wave (CW) radar system operating with a constant frequency can measure _____.

(a) Velocity and Range

(b) Range

(c) Velocity, but not the range

(d) Range, but not the velocity

Answer: (c)

192. What is the use of mixer and local oscillator in RADAR?

(a) To convert an RF signal to EM signal

(b) To convert an AM signal to RF signal

(c) To convert an IF signal to an RF signal

(d) To convert an RF signal to an IF signal

Answer: (d)

193. TV programs are transmitted by communication satellites using _____.

(a) Guided microwave propagation
(b) LOS microwave propagation
(c) Scatter propagation
(d) Sky wave propagation

Answer: (b)

194. Shape of pulses generated by pulse generator is _____.

(a) Sinusoidal
(b) Triangular
(c) Square
(d) Rectangular

Answer: (d)

195. Function generator has _____.

(a) One voltage output terminals
(b) Two voltage output terminals
(c) Four voltage output terminals
(d) Three voltage output terminals

Answer: (d)

196. An electronic measuring instrument that combine everal measurement functions in one unit is _____.

(a) Function generator
(b) Multimeter
(c) CRO
(d) Voltmeter

Answer: (b)

197. Which of the following controls is NOT available on a function generator?

(a) Current control
(b) Wave shape
(c) Frequency control
(d) Amplitude control

Answer: (a)

198. Digital TVs (DTV) is an umbrella term that refers to _____.

(a) high-definition television (HDTV)
(b) high-definition television (HDTV) and standard definition television (SDTV)
(c) Television (TV)
(d) standard definition television (SDTV)

Answer: (b)

199. What is the work of sensor element in digital camera?

(a) It converts neuron into a voltage proportional to the brightness which is passed into an Analog-to-digital converter (ADC).

(b) It converts light into a voltage proportional to the darkness which is passed into an Analog-to-digital converter (ADC).

(c) It converts light into a current proportional to the brightness which is passed into an Analog-to-digital converter (ADC).

(d) It converts light into a voltage proportional to the brightness which is passed into an Analog-to-digital converter (ADC).

Answer: (d)

200. What will consumer do if consumer wants to take advantage of crystal-clear sound and picture quality without changing to new digital television set?

(a) Modem

(b) Digital Set-top box

(c) Cable

(d) VCR

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

General Ability

21	**(b)**	22	**(c)**	23	**(b)**	24	**(c)**	25	**(c)**	26	**(b)**
27	**(b)**	28	**(b)**	29	**(d)**	30	**(b)**	31	**(a)**	32	**(c)**
33	**(c)**	34	**(b)**								

Arithmetic Ability

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

General English

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

Discipline1

101	**(b)**	102	**(a)**	103	**(c)**	104	[illegible]	05	**(b)**	106	**(a)**
107	**(a)**	109	**(d)**	110	**(b)**	111	**(a)**	112	**(a)**	113	**(b)**
114	**(d)**	115	**(b)**	116	**(a)**	117	**(b)**	118	**(d)**	119	**(c)**
120	**(c)**										

Discipline2

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

Discipline3

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

Discipline4

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

Discipline5

181	**(a)**	182	**(b)**	183	**(d)**	184	**(c)**	185	**(b)**
186	**(c)**	187	**(a)**	188	**(c)**	189	**(c)**	190	**(c)**
191	**(c)**	192	**(d)**	193	**(b)**	194	**(d)**	195	**(d)**
196	**(b)**	197	**(a)**	198	**(b)**	199	**(d)**	200	**(b)**