PREVIOUS YEAR PAPER

DSSSB Technical Assistant (Automobiles) 2021 — 23 October 2021, Shift 3

DSSSB Other Posts · 23 October 2021 · Shift 3

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 23 October 2021, Shift 3. 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-automobiles-23-oct-shift-3/

General Ability

1. Find the odd one out of the following alternatives.

(a) Mouse
(b) Scanner
(c) Monitor
(d) Joystick

Answer: (c)

2. The given pair of words bears a relationship betwe them, choose the pair of words which has the similar relationship between them.
Hindu : Temple : : ?

(a) Sikh : Golden Temple
(b) Christian : Synagogue
(c) Jews : Church
(d) Muslim : Mosque

Answer: (d)

3. Select the option that is related to the third word in the same way as the second word is related to the first word.
VIROLOGY : VIRUS : : CRANIOLOGY : ?

(a) HEART
(b) SKULL
(c) SHELL
(d) FOSSIL

Answer: (b)

8. Sahil went 300 m towards the South to meet his friends at a restaurant. After meeting them, he turned left and went 100 m. Again, he turned left and went 150 m to meet his sister. What is the distance of the restaurant from the starting point?

(a) 300 km

(b) 150 m

(c) 100 m

(d) 300 m

Answer: (d)

10. A chocolate costs ₹ 17 each. A biscuits costs ₹ 10 each. Amit spends ₹ 280 on buying them. What is the number of chocolates Amit purchased?

(a) 5

(b) 10

(c) 12

(d) 15

Answer: (b)

11. Use the following information to solve the question below.
If P + Q means P is the father of Q.
P - Q means P is the mother of Q
P × Q means P is the sister of Q.
P / Q means P is the brother of Q.
P ! Q means P is the wife of Q.
In what way A is related to C in the below mentioned equation A – B ! C

(a) Daughter in law

(b) Son in Law

(c) Mother in Law

(d) Father in law

Answer: (c)

12. The following sentences are arranged in specific pattern. Choose the correct Missing alternative sentence according to the pattern.
1. Neolithic Period 2. Iron Period 3. Helleminstic Period 4. Ottoman Period 5. Chaleolithic Period

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

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

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

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

Answer: (c)

13. The mentioned two words have a certain relationship to each other, Select the pair which has the same relationship with given letter clusters.
Helium, Neon, Argon, Krypton , _____

(a) Hydrogen

(b) Radon

(c) Sodium

(d) Magnesium

Answer: (b)

15. The two expressions on either side of the sign (=) will have the same value if two terms on either side or on the same side are interchanged. Find the correct terms to be interchanged.
6 x 2 - 16 ÷ 4 = 5 + 7 x 2 - 21 ÷ 3

(a) 6, 7

(b) 4, 7

(c) 2, 5

(d) 6, 5

Answer: (a)

16. Which one of the given interchange in signs and number would make the given equation CORRECT?
79 + 2 – 64 ÷ 8 x 3 – 5 = 226

(a) × and ÷, 2 and 5

(b) + and –, 64 and 5

(c) + and ÷, 79 and 8

(d) + and x, 3 and 2

Answer: (d)

17. Select the correct combination of mathematical signs to sequentially replace 'A' and balance the following equation.
90 A 6 A 12 A 45 A 4

(a) ×, =, − , ÷

(b) ÷, ×, =, −

(c) ×, ÷, =, −

(d) ÷, ×, =, ×

Answer: (d)

18. In an exam, a student got thrice as many answers correct as he got wrong. If he attempted 56 questions in all, how many did he solve correctly?

(a) 14

(b) 56

(c) 42

(d) 28

Answer: (c)

19. Four number sets have been given, out of which three are alike in some manner and one is different. Select the one that is different.

(a) (100, 450, 800)
(b) (120, 540, 960)
(c) (200, 900, 1600)
(d) (250, 1150, 2000)

Answer: (d)

20. If 12 + 7 = 96, 25 + 6 = 175 then what would be 41 + 5 = ?

(a) 246
(b) 345
(c) 78
(d) 980

Answer: (a)

General Awareness

21. Where is 'Martand Sun Temple' located?

(a) Anantnag, Jammu and Kashmir
(b) Konark, Odisha
(c) Modhera, Gujarat
(d) Domlur, Bangalore

Answer: (a)

22. At Sravanabelgola in Karnataka, the fa[illegible] M[illegible]mastakabhisheka festival is held every _____ years to honour Lord Bahubali (Gommateswara).

(a) 5
(b) 7
(c) 9
(d) 12

Answer: (d)

23. The two-day Hemis festival is celebrated annually to mark:

(a) the birth anniversary of Buddha.
(b) the birth anniversary of Mahavira.
(c) the birth anniversary of Guru Padmasambhava.
(d) the death anniversary of Buddha.

Answer: (c)

24. Who was the founder of the Tughlaq dynasty during Delhi Sultanate?

(a) Ghiyasuddin Tughlaq
(b) Muhammad Tughlaq
(c) Firuz Shah Tughlaq
(d) Mahmud Nasiruddin Tughlaq

Answer: (a)

25. The 'Sambhar' lake is situated in which state?
    (a) Rajasthan
    (b) Uttarakhand
    (c) Maharashtra
    (d) Himachal Pradesh
    Answer: (a)

26. Which state was put under the President's Rule on 12 November 2019?
    (a) Kerala
    (b) Madhya Pradesh
    (c) Maharashtra
    (d) Jammu and Kashmir
    Answer: (c)

27. Which of the following is the west flowing river in India?
    (a) Koyna
    (b) Tapi
    (c) Kaveri
    (d) Krishna
    Answer: (b)

28. Which state government launched 'Mo Sarkar' pr amme to provide service with dignity in daily governance on 150th birth anniversary of the M atma Gandhi in 2019?
    (a) Gujarat
    (b) Odisha
    (c) West Bengal
    (d) Maharashtra
    Answer: (b)

29. The establishment and constitution of the Supreme Court is mentioned in the article _____ of the Indian Constitution.
    (a) Article 228
    (b) Article 124
    (c) Article 127
    (d) Article 224
    Answer: (b)

30. Who was the editor of Samwad Kaumudi?
    (a) Mahatma Gandhi
    (b) Bankim Chandra Chatterjee
    (c) Ishwar Chandra Vidhyasagar
    (d) Raja Ram Mohan Roy
    Answer: (d)

31. The _____ birth anniversary of Guru Nanak was celebrated as Guru Parva or Prakashotsav in 2019.

(a) 525th
(b) 500th
(c) 575th
(d) 550th

Answer: (d)

32. As per Indian monuments and their builders/establishers, which one of the following pairs is INCORRECT?

(a) Agra Fort – Akbar
(b) Jama Masjid – Shahjahan
(c) Buland Darwaza – Babur
(d) Bada Imambara – Asaf-ud-daula

Answer: (c)

33. Which of the following emperors evolved a policy of Dharma Vijaya, 'Conquest by Piety'?

(a) Ashoka
(b) Chandragupta Maurya
(c) Prithvi Raj Chauhan
(d) Bindusara

Answer: (a)

34. Which of the following animals is from the Cani family?

(a) Fox
(b) Monkey
(c) Crocodile
(d) Lion

Answer: (a)

35. Which of the following bacteria lives in leguminous plants?

(a) Pseudomonas aeruginosa
(b) Candida auris
(c) Rhizobium
(d) Acinetobacter baumannii

Answer: (c)

36. Which of the following dances is performed at weddings and other social gatherings in Kashmir?

(a) Bhand Pather
(b) Dumhal
(c) Bachha Nagma
(d) Kud dance

Answer: (c)

37. Who among the following is considered as the torch-bearer of the Kuchipudi form of dance?

(a) Mallika Sarabhai
(b) Rukmini Devi Arundale
(c) Chitra Visweswaran
(d) Yamini Krishnamurthy

Answer: (d)

38. In which year was the Konark dance festival started?

(a) 1988
(b) 1986
(c) 1985
(d) 1984

Answer: (b)

39. Which of the following festivals is celebrated in Nagaland?

(a) Raja festival
(b) Hornbill festival
(c) Nuakhai festival
(d) Magha Saptami festival

Answer: (b)

40. Which of the following plants has 'hidden reprodu ve organs'?

(a) Deodar
(b) Cycas
(c) Marsilea
(d) Ipomoea

Answer: (c)

Arithmetic Ability

41. Study the following information and answer the question.
A company has 1200 employees working in its five departments – HR, Marketing, IT, Production and Accounts. 45% of the total employees are males and the rest are females. The ratio of males to females in HR department is 1 : 3 and 1/9 th of the number of male employees work in HR department. 20% of the females work in IT department and the ratio of males to females in IT department is 14 : 11. 30% of females work in Marketing department. 25% of male employees work in Production department and the number of female employees in Production department is 45 less than the number of male employees in that department. 54 males work in Accounts department and the remaining in Marketing department. The number of females in Accounts department is 60.
The ratio of the number of female employees in Marketing department to the number of male employees in Production department is:

(a) 4 : 3
(b) 33 : 28
(c) 22 : 15
(d) 44 : 45

Answer: (c)

42. Study the following information and answer the question.
A company has 1200 employees working in its five departments – HR, Marketing, IT, Production and Accounts. 45% of the total employees are males and the rest are females. The ratio of males to females in HR department is 1 : 3 and 1/9th of the number of male employees work in HR department. 20% of the females work in IT department and the ratio of males to females in IT department is 14 : 11. 30% of females work in Marketing department. 25% of male employees work in Production department and the number of female employees in Production department is 45 less than the number of male employees in that department. 54 males work in Accounts department and the remaining in Marketing department. The number of females in Accounts department is 60.
The number of male employees in Marketing department is what percent of the total number of female employees in HR, Production and Accounts departments? (correct to one decimal place)

(a) 34.2%
(b) 35.8%
(c) 36.4%
(d) 37.3%

Answer: (d)

43. The perimeter of a rhombus is 40 m while its one diagonal is 16 m. What is the other diagonal?

(a) 8 m
(b) 24 m
(c) 16 m
(d) 12 m

Answer: (d)

49. What least digit should come in place of * in the digit number 2549 * 325, for which the number is divisible by 11?

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

Answer: (d)

50. If 40% of a number is 800, then the number is:

(a) 1000
(b) 2400
(c) 3200
(d) 2000

Answer: (d)

51. The mean of the first 5 prime numbers is:

(a) 5.5
(b) 5.6
(c) 5.8
(d) 6.2

Answer: (b)

52. Sana can do a piece of work in 30 days. Tanu is 25% more efficient than Sana. The number of days taken by Tanu to do the same piece of work is:

(a) 24 days
(b) 20 days
(c) 18 days
(d) 14 days

Answer: (a)

53. Convert the following ratio 1 : 9 into decimal percent.

(a) 11.11%
(b) 12.1%
(c) 10.9%
(d) 9.55%

Answer: (a)

54. The average age of a family of 5 members is 30 years. If the age of the youngest member be 15 years then what was the average age of the family at the time of the birth of the youngest member?

(a) 18.75
(b) 20
(c) 16
(d) 25

Answer: (a)

55. What profit percent is made by selling an article a certain price if by selling at three-fifth of that price there may be a loss of 10%?

(a) 50%
(b) 30%
(c) 25%
(d) 20%

Answer: (a)

56. Find the third proportional to 16 and 64.

(a) 32
(b) 256
(c) 4
(d) 128

Answer: (b)

57. Two numbers are respectively 40% and 60% more than a third number. the ratio of the two numbers is:

(a) 7 : 8
(b) 6 : 5
(c) 8 : 7
(d) 8 : 5

Answer: (a)

58. A person crosses a 900 m long street in 5 minutes. What is his speed in km per hour?

(a) 10.8

(b) 8.8

(c) 12.6

(d) 9.8

Answer: (a)

59. In covering a distance of 60 km, Amar takes 2 hours more than Sagar. If Amar doubles his speed, then he would take 1 hour less than Sagar.
Amar's speed is:

(a) 10 km/hr

(b) 12 km/hr

(c) 8 km/hr

(d) 9 km/hr

Answer: (a)

60. A sum of money becomes three times in 4 years at certain rate of interest. Find the time in which the same amount will be nine times at the same interest rate.

(a) 16 yrs

(b) 11 yrs

(c) 13 yrs

(d) 15 yrs

Answer: (a)

General English

61. Fill in the blank with the most appropriate option.
The little girl's _____ grew louder when she could not find her mother in the house.

(a) whales

(b) vales

(c) veils

(d) wails

Answer: (d)

62. Choose the option that is the homonym with the meanings 'Just' and 'Light complexioned'

(a) Fare

(b) Fair

(c) Fail

(d) fell

Answer: (b)

63. Fill in the blank with the most appropriate option.
Can the students returning early to the campus get _____ preferred rooms in the hostel?

(a) there
(b) their
(c) they’re
(d) they are

Answer: (b)

64. Complete the idiom in the given sentence with the correct key word from the options given below. The meaning of the idiom is given in parenthesis for guidance.
I wasn’t expecting her to sound the horn so loud; I nearly jumped _____ (gave a big jump).

(a) out of the room
(b) on the table
(c) out of my skin
(d) on the floor

Answer: (c)

65. Choose the CORRECT pair of homonyms.

(a) Old and Gold
(b) Rattle and Battle
(c) Highway and Subway
(d) Cast and Caste

Answer: (d)

66. Select the most appropriate meaning of the given idiom.
In dire straits

(a) An old musical band
(b) A huge body of water between Singapore and Malaysia
(c) To be in a very bad or difficult situation
(d) To sail in rough waters during a storm

Answer: (c)

67. Choose the CORRECT homonym pair to be filled in the blanks in the following sentence.
My friend managed the crime _____ of the national newspaper, making it easy for him to investigate the father who _____ his child to death.

(a) bite; bait
(b) byte; bite
(c) abate; about
(d) beat; beat

Answer: (d)

68. Select the correct antonym for the word.
Cherish

(a) Esteem
(b) Admire
(c) Detest
(d) Adore

Answer: (c)

69. Select the most appropriate meaning of the given phrase.
Jot down

(a) Bring down
(b) Write down
(c) Go down
(d) Come down

Answer: (b)

70. Select the most appropriate meaning of the given idiom.
Apple of discord

(a) Reason for dispute
(b) Reason for settlement
(c) Reason for compensation
(d) Reason for adjustment

Answer: (a)

71. Select the word which is opposite in meaning to the word given below.
Failure

(a) Success
(b) Break
(c) Tear
(d) Join

Answer: (a)

72. Choose the word from the options that is closest in meaning to the given word.
Blasphemy

(a) Blessing
(b) Sacred
(c) Profanity
(d) Reverence

Answer: (c)

73. Read the following sentence and identify the part that has an error.
There is no doubt that / the chess is a game / which requires / great skill and patience.

(a) There is no doubt that
(b) the chess is a game
(c) which requires
(d) great skill and patience

Answer: (b)

75. Select the most appropriate option to fill in the blank.
The teacher _____ accompany us because he has broken his leg.

(a) must
(b) should
(c) can't
(d) isn't

Answer: (c)

77. What is the meaning of deceased?

(a) Person writing a story
(b) Person about whom the story is written
(c) Person who has passed away
(d) Person who will be born

Answer: (c)

78. Life story written by a person about his life is ca[illegible]:

(a) a biography
(b) an autobiography
(c) Memoirs
(d) My story

Answer: (b)

80. Identify the word close to memory.

(a) Recall
(b) Refresh
(c) Reconcile
(d) Represent

Answer: (a)

Discipline1

101. If a square matrix A is real, symmetric and positive definite, then the eigen values are:

(a) are always real and positive
(b) are always real and negative
(c) are always real and symmetric
(d) occur in complex conjugate pairs

Answer: (a)

102. Stokes theorem connects:

(a) A line integral and a surface integral

(b) A surface integral and a volume integral

(c) A line integral and a volume integral

(d) Gradient of a function and its surface integral

Answer: (a)

103. A coin is tossed in 4 times what is probability of getting head exactly 3 times?

(a) 1/3

(b) 3/7

(c) 1/4

(d) 3/5

Answer: (c)

104. Thickness of teeth is measured along:

(a) Absorb shocks and variations

(b) Pitch circle

(c) Provide cushioning effect

(d) Module

Answer: (b)

105. In offset sections, offsets or bends in the cutting ne are all:

(a) 45 degree

(b) 90 degree

(c) 180 degree

(d) 360 degree

Answer: (b)

106. Suggest the bearing most suitable for fluctuating loads:

(a) Bush bearing

(b) Single ball bearing

(c) Needle roller bearing

(d) Taper roller bearing

Answer: (c)

107. Toughness of material signifies

(a) Strength

(b) Malleability

(c) Brittleness

(d) Fatigue strength

Answer: (a)

108. The percentage of reduction in area during tensile test on a cast iron specimen is:

(a) 5%
(b) 10%
(c) 15%
(d) Negligible

Answer: (d)

109. Young's modulus of elasticity for a perfectly rigid body is:

(a) negative
(b) Infinity
(c) one
(d) perfect

Answer: (b)

110. Proof resilience represents the maximum strain energy that a material can absorb when stressed upto:

(a) Working Stress
(b) Ultimate Stress
(c) Proportional Limit
(d) Yield Point

Answer: (c)

111. Which of the following is NOT a foundry tool?

(a) Bulging
(b) Riddle
(c) Arbor
(d) Embossing

Answer: (c)

112. Metal patterns are used for:

(a) Small casting
(b) Chisels
(c) Brake paddle of an automobile
(d) Large scale production of casting

Answer: (d)

113. Sweep patterns are used for:

(a) Clamping
(b) Tiny objects
(c) Soldering
(d) Large circular casting

Answer: (d)

114. Indicate the most appropriate binder used in shell molding process:
(a) Bitumen
(b) Urea
(c) Ammonia
(d) Carbon
Answer: (b)

115. Which is NOT a part of automobile transmission System?
(a) Clutch
(b) Gearbox
(c) Axles
(d) Propellor Shaft
Answer: (c)

116. What carries the driving wheels of a Vehicle?
(a) Crank Shaft
(b) Crank & Slider
(c) Propellor Shaft
(d) Axles
Answer: (d)

117. A two-piece propeller shaft requires a:
(a) struts
(b) levers
(c) thrust bearings
(d) center support bearing
Answer: (d)

118. The control gear to epically gear unit is called:
(a) Mechanical gear
(b) Pneumatic
(c) Sun gear
(d) Vacuum
Answer: (c)

119. Communication helps officials to _____ the employees.
(a) Motivate
(b) Eliminate
(c) Intimate
(d) Apprise
Answer: (a)

120. _____ is also called as “rule of thumb”.

(a) Eliminate
(b) Heuristics
(c) Apprise
(d) Motivate

Answer: (b)

Discipline2

121. The subject in the job application is written _____

(a) Before the salutation
(b) After the complimentary close
(c) Before the complimentary close
(d) After the salutation

Answer: (d)

122. A ball and socket joint forms a:

(a) Rope drive
(b) Rolling pair
(c) Chain drive
(d) Spherical pair

Answer: (d)

123. Mid-point of the floating link of elliptical tramm races a:

(a) Diametral pitch
(b) Circular pitch
(c) Ellipse
(d) The module of the gear

Answer: (c)

124. In a kinematic chain, a quaternary joint is equitant to:

(a) Pitch point
(b) Base joint
(c) Binary circle
(d) Three Binary joint

Answer: (d)

125. The minimum number of rings in a piston of four stroke cycle engines are:

(a) Two
(b) Three
(c) Four
(d) Six

Answer: (b)

126. The self-starter of a car is:

(a) AC Motor
(b) DC Shunt Motor
(c) DC Series Motor
(d) DC 12Volt Dynamo

Answer: (c)

127. The clutch is located between the engine and:

(a) Gear Box
(b) Differential Gear
(c) Rear axle
(d) Universal Joint

Answer: (a)

128. Which is NOT a part of magneto-ignition system?

(a) Battery
(b) Induction Coil
(c) Circuit Breaker
(d) Condenser

Answer: (a)

130. The ignition quality of a petrol engine fuel is expr ed as:

(a) SAE Rating
(b) API Gravity
(c) Octane Number
(d) Cetane Number

Answer: (c)

131. Indicate the metal with highest value of the thermal conductivity.

(a) Silver
(b) Steel
(c) Gold
(d) Copper

Answer: (a)

132. Identify the very good insulator.

(a) Water
(b) Wire rubber
(c) Glass wool
(d) Air

Answer: (c)

133. The value of Prandtl number of air is about:

(a) 0.3
(b) 0.5
(c) 0.7
(d) 0.4

Answer: (c)

134. Automobile connecting rod are mass produced by:

(a) Cold heating
(b) Forging
(c) Fine sand casting
(d) Die casting

Answer: (b)

135. Piston compression rings are made of:

(a) Iron
(b) Cast iron
(c) Bronze
(d) Cast Steel

Answer: (b)

136. What is often called the fuel of future?

(a) Hydrogen
(b) Methane
(c) Ethanol
(d) Diesel

Answer: (a)

137. The engine vacuum brakes are generally used on:

(a) Busses
(b) Cars
(c) Tractors
(d) Trains

Answer: (d)

138. C programming language was primarily developed as:

(a) GO TO 999
(b) System programming language
(c) PRINT 999
(d) General purpose language

Answer: (b)

139. The binary coded decimal (BCD) uses:

(a) 16 Bits

(b) 8 Bits

(c) 4 Bits

(d) 12 Bits

Answer: (c)

140. C programming language was developed in the year _____.

(a) 1950

(b) 1972

(c) 1988

(d) 1947

Answer: (b)

Discipline3

141. C is a _____ language.

(a) High level

(b) Middle level

(c) Low level

(d) Machine level

Answer: (b)

142. The steering ratio of manual steering of car is approximately:

(a) 5

(b) 8

(c) 12

(d) 22

Answer: (c)

143. Master Cylinder in an automobile is associated with:

(a) Steering

(b) Braking

(c) Lubrication

(d) Suspension

Answer: (b)

144. The function of oil control rings is:

(a) to lubricates the cylinder wall by releasing oil from its hole

(b) to keep the cylinder wall lubricated by holding oil in its channel

(c) to prevent engine oil from going into the combustion chamber and returns excess lubricating oil off the cylinder wall through the return holes in the piston to the oil pan

(d) to maintain a seal and prevent escape of burned gases and oil leakage

Answer: (c)

145. What will be the number of balance weight on a crankshaft of a typical inline four-cylinder engine?

(a) 4
(b) 6
(c) 8
(d) 12

Answer: (c)

146. An automobile engine is usually mounted at _____ points.

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

Answer: (b)

147. The coefficient of friction for the clutch facings is approximately _____.

(a) 1.0
(b) 0.75
(c) 0.4
(d) 0.1

Answer: (c)

148. How many types of automobile tyres are there?

(a) Two
(b) Three
(c) Four
(d) Nothing Specific

Answer: (a)

149. Electric pressure is also called:

(a) Voltage
(b) Reduce armature reaction
(c) Reduce iron weight
(d) Resistance

Answer: (a)

150. In gases the flow of current is due to:

(a) Electrons only
(b) Positive ions only
(c) Negative ions only
(d) Electrons, positive & negative ions

Answer: (d)

151. The flow of current in solid is due to:
(a) Electrons
(b) Atoms
(c) Neutrons
(d) Protons
Answer: (a)

152. An instrument detects electric current is known as _____.
(a) Galvanometer
(b) Voltmeter
(c) Thermometer
(d) Hygrometer
Answer: (a)

153. The vanes of a centrifugal pump are in general:
(a) Not curved
(b) Curved backward
(c) Regular
(d) Horizontal
Answer: (b)

154. The Program status word (PSW) contains various status of:
(a) ALU
(b) AMU
(c) ANU
(d) ATU
Answer: (a)

155. Which one of the following is NOT a command in DBASE III?
(a) Create
(b) Save
(c) Sort
(d) Edit
Answer: (c)

156. Trajectory of a robot mean:
(a) Path traced by end effector
(b) Kinematics of robot
(c) Robot joints
(d) Robot programming
Answer: (a)

157. The Lift of an aircraft when it is flying straight and level is:

(a) Equal to the weight
(b) More than weight
(c) Less than weight
(d) Double the weight

Answer: (a)

158. Which of the following is the most common high lift device?

(a) Lever
(b) Rubber
(c) Engine
(d) Flaps

Answer: (d)

159. Which engine requires forward motion through air to produce thrust?

(a) Space engine
(b) Plane engine
(c) Ship engine
(d) Ramjet engine

Answer: (d)

160. What is the effect of having excess camber?

(a) No effect
(b) Hard steering
(c) Loose steering
(d) Uneven tyre wear

Answer: (d)

Discipline4

161. The colour of the positive plate of lead-acid battery is:

(a) pink
(b) black
(c) yellow
(d) brown

Answer: (d)

162. A fully charged 6-cell should indicate:

(a) 12.0 v
(b) 12.6 v
(c) 13.2 v
(d) 14 v

Answer: (b)

163. What is the purpose of engine air filter?

(a) Prevents rain water from entering the engine

(b) Prevents dust and other foreign matter from entering the engine

(c) To control the engine's air intake volume

(d) To reduces the engine's air intake noise

Answer: (b)

164. The starting system of an automobile includes:

(a) A battery, a distributor, and an ignition switch

(b) A battery, a starter, and an ignition switch

(c) A battery, a starter, and a distributor

(d) A distributor, a starter, and an ignition switch

Answer: (b)

165. Cosmic rays, such as gamma rays are a source of:

(a) Soil pollution

(b) Noise pollution

(c) Thermal pollution

(d) Radiation pollution

Answer: (d)

166. DDT and aluminium cans are example of:

(a) Primary pollutant

(b) Secondary pollutant

(c) Biodegradable pollutant

(d) Non-Biodegradable pollutant

Answer: (d)

167. TMU stands for time _____ unit.

(a) Motion

(b) Measurement

(c) Method

(d) Movement

Answer: (b)

168. What is break- even point?

(a) Total cost is more than to cost revenue

(b) Total cost equal to cost revenue

(c) Total cost less than to cost revenue

(d) Fixed cost equal to variable cost

Answer: (b)

169. In case of new product _____ method of pricing is most suitable.

(a) Cost pulse
(b) Monopoly
(c) Mark up
(d) Penetration

Answer: (d)

170. In an organization, control system is NOT influence by:

(a) circumstances
(b) demand
(c) external environment
(d) market

Answer: (c)

171. Maslow's need theory is based on _____.

(a) Organizational needs
(b) Market needs
(c) Human needs
(d) Government needs

Answer: (c)

172. Subscription received in advance during the yea _____.

(a) Asset
(b) Surplus
(c) Liability
(d) Income

Answer: (c)

173. Component use to control the output in an alternator _____.

(a) Voltage regulator
(b) Current circuit
(c) Voltage circuit
(d) All are required

Answer: (a)

174. What is the material of an alternator frame?

(a) Cast iron
(b) Brass
(c) Copper
(d) Aluminium

Answer: (d)

175. The charging voltage of an engine at start is:

(a) Not required
(b) Higher
(c) Lower
(d) Zero

Answer: (b)

176. Which of the following is the first port of India under British rule?

(a) Calcutta (Kolkata)
(b) Bombay (Mumbai)
(c) Ennore
(d) Delhi

Answer: (a)

177. The longest national highway in India _____.

(a) NH6
(b) NH27
(c) NH44
(d) NH12

Answer: (c)

178. Port of Kandla is located in which of the followinc ates of India?

(a) Gujarat
(b) Maharastra
(c) Andhra Pradesh
(d) Kerala

Answer: (a)

179. Barge is a type of:

(a) Ship
(b) Motor vehicle
(c) Aeroplane
(d) Train

Answer: (a)

180. Inertia of the rotating parts on clutches should be:

(a) infinity
(b) minimum
(c) unpredictable
(d) Maximum

Answer: (b)

Discipline5

181. Toe-wear in tyre caused by:
(a) Over-inflation
(b) Under-inflation
(c) Excessive camber
(d) Excessive acceleration
Answer: (a)

182. Another name of damper:
(a) Shrut rod
(b) Stabilizer bar
(c) Pan rod
(d) Radius rod
Answer: (b)

183. _____ is called the 'country of winds'.
(a) Denmark
(b) Portugal
(c) Ireland
(d) Spain
Answer: (a)

184. The temperature of a solar cooker can be increased with the help of a:
(a) Concave lens
(b) Convex lens
(c) Convex mirror
(d) Concave mirror
Answer: (d)

185. Which of the following does NOT produce CO 2 during electricity production?
(a) fuel
(b) ethane
(c) uranium
(d) carbon
Answer: (c)

186. Which of the following is similar to plastic injection moulding?
(a) SLS
(b) FDM
(c) SLA
(d) LOM
Answer: (b)

187. Which of the following is NOT a part of FMS?

(a) AGVs
(b) AS/RS
(c) lathe
(d) CNC machine

Answer: (c)

188. Which of the following is required to hold hollow work piece?

(a) Gripper external
(b) Magnetic gripper
(c) Internal gripper
(d) Notch gripper

Answer: (c)

189. Based on the initial form of its material, Rapid Prototyping Technology are classified in how many types?

(a) 12
(b) 9
(c) 6
(d) 3

Answer: (d)

190. In conventional refrigerant, which of the followi lement is responsible for ozone depletion?

(a) Chlorine
(b) Florine
(c) Carbon
(d) Hydrogen

Answer: (a)

191. Secondary Refrigerant is inversibility used in _____.

(a) Water cooler
(b) Deep Freezer
(c) Ice Plant
(d) Window Air Conditioner

Answer: (c)

192. The brine is an aqueous solution of _____ water.

(a) Sodium chloride
(b) Chlorine carbonate
(c) Bicarbonate
(d) Hydrogen

Answer: (a)

193. The vapour-compression refrigeration system operates on reversed:

(a) Rankine cycle
(b) Joule cycle
(c) Atkinson cycle
(d) Ericsson cycle

Answer: (a)

194. The highest temperature at which oil ceases to flow when it is cooled is called _____.

(a) Pour point
(b) Triple point
(c) Bubble point
(d) Flash point

Answer: (a)

195. In the context of automobiles, what does SUV stand for?

(a) Sport Unity Vehicle
(b) Super unity vehicle
(c) Shine Urban Vehicle
(d) Short Urban Vehicle

Answer: (a)

196. What type of car batteries are generally used in I a?

(a) Dry battery
(b) Lead acid battery
(c) Iron battery
(d) Cadmium Battery

Answer: (b)

197. Which of the following is constitute of direct expenses?

(a) Rent of factory building
(b) Cost of advancement
(c) Salaries of office
(d) Cost of jigs and fixtures made for a job

Answer: (d)

198. Which is independent of sale forecast?

(a) Productivity
(b) Demand
(c) Supply
(d) Requirement

Answer: (a)

199. Shewhart control charts are used for:

(a) Work study

(b) Quality control

(c) Production

(d) Management

Answer: (b)

200. The breakeven point is LEAST affected by change in:

(a) Product mix

(b) Selling price

(c) Fixed cost

(d) Production of volume

Answer: (d)

Answer key

Answer key from the Delhi Subordinate Services Selection Board's official answer key for this sitting. "—" means the key gave none.

General Ability

1	**(c)**	2	**(d)**	3	**(b)**	8	**(d)**	10	**(b)**	11	**(c)**	12	**(c)**	13	**(b)**				
15	**(a)**	16	**(d)**	17	**(d)**	18	**(c)**	19	**(d)**	20	**(a)**								

General Awareness

21	**(a)**	22	**(d)**	23	**(c)**	24	**(a)**	25	**(a)**	26	**(c)**	27	**(b)**	28	**(b)**				
29	**(b)**	30	**(d)**	31	**(d)**	32	**(c)**	33	**(a)**	34	**(a)**	35	**(c)**	36	**(c)**				
37	**(d)**	38	**(b)**	39	**(b)**	40	**(c)**												

Arithmetic Ability

41	**(c)**	42	**(d)**	43	**(d)**	49	**(d)**	50	**(d)**	51	**(b)**	52	**(a)**	53	**(a)**				
54	**(a)**	55	**(a)**	56	**(b)**	57	**(a)**	58	**(a)**	59	**(a)**	60	**(a)**						

General English

61	**(d)**	62	**(b)**	63	**(b)**	64	**(c)**	65	**(d)**	66	**(c)**	67	**(d)**	68	**(c)**				
69	**(b)**	70	**(a)**	71	**(a)**	72	**(c)**	73	**(b)**	75	**(c)**	77	**(c)**	78	**(b)**				
80	**(a)**																		

Discipline1

101	**(a)**	102	**(a)**	103	**(c)**	104		05	**(b)**	106	**(c)**	107	**(a)**	108	**(d)**				
109	**(b)**	110	**(c)**	111	**(c)**	112	**(d)**	113	**(d)**	114	**(b)**	115	**(c)**	116	**(d)**				
117	**(d)**	118	**(c)**	119	**(a)**	120	**(b)**												

Discipline2

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

Discipline3

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

Discipline4

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

Discipline5

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