PREVIOUS YEAR PAPER

DSSSB Draftsman 2021 — 17 October 2021, Shift 1

DSSSB Other Posts · 17 October 2021 · Shift 1

149 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: 51 (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 17 October 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-draftsman-17-oct-shift-1/

General Ability

1. If + means ×; ÷ means – ; – means ÷ ; × means +, then what will be the value of the following expression?
8 + 32 ÷ 6 × 20 – 5

(a) 45.6
(b) 54
(c) 212
(d) 254

Answer: (d)

2. If it is given that % stands for +, # stands for –, @ stands for ÷ , ^ stands ^ and & stands for ×, then 25# 8^(1/3) & 2^(–1) % 99 @ 3^2 is equal to:

(a) 132
(b) 35
(c) 8.3
(d) 100

Answer: (b)

3. Arrange the following words in a meaningful sequence and choose the correct order.
1. Paleolithic age
2. Mesolithic age
3. Neolithic age
4. Chalcolithic age
5. Iron age

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

Answer: (d)

4. If '+' means '–', '–' means '×', '×' means '÷', and '÷' means '+', then what is the value of the expression 18 x 3 ÷ 18 + 5 - 2

(a) 6
(b) 14
(c) 32
(d) 36

Answer: (b)

5. If '+' mean '÷', '–' means '+', '×' means '–', and '÷' means '×', then the value of 18 x 12 + 2 - 5 ÷ 6

(a) 219
(b) 43
(c) 33
(d) 42

Answer: (d)

7. If '–' stands '+', '+' stands for '×', '×' stands for '–', then which one of the following expression is correct.

(a) 4-7x 9+8= -14
(b) 6x 13+3-1= 32
(c) 3+4-2x 5= 9
(d) 2x 11+6-10 = -54

Answer: (c)

8. If '÷' mean '+', '–' mean '÷', '×' mean '–', and '+' me '×', then {(60 ×4) –8 × 1} ÷ { 5 + 7 × 2 + 15 ÷ 1} = ?

(a) 1
(b) 4/3
(c) 8/3
(d) 8

Answer: (a)

9. The digits of two digit number differs by 3. If the digits are interchanged and the resulting number is added to the original number, we get 165.
What is the original number ?

(a) 143
(b) 58
(c) 85
(d) 96

Answer: (d)

10. Which of the following two signs need to be interchanged to make the given equation correct?
72 ÷ 12 –4 + 9 x 36 = 6

(a) ÷ and x

(b) + and –

(c) + and ÷

(d) x and +

Answer: (d)

11. If 'R' stands for addition, 'T' stands for subtraction, 'S' stands for multiplication and 'U' stands for division, then what is the value of:
12 T 2 R 20 U 5 S 6=?

(a) 34

(b) 44

(c) 24

(d) 14

Answer: (a)

12. Which of the following two numbers need to be interchanged to make the given equation correct?
15 + 3 x 4 – 18 ÷ 5 = 29

(a) 4 and 3

(b) 3 and 5

(c) 5 and 4

(d) 18 and 3

Answer: (b)

13. Which of the following two numbers need to be interchanged to make the given equation correct?
9 x 5 ÷ 2 + 8 –7 = 22

(a) 9 and 8

(b) 9 and 7

(c) 7 and 8

(d) 2 and 8

Answer: (a)

14. If the given interchanges are made in signs and digits, which one of the following equations would be correct?
Given interchanges:
Signs: + and –
Digits: 8 and 6

(a) 6 –8 + 3 x 9 = 3

(b) 9 + 8 x 2 - 6 = 5

(c) 8 + 9 - 3 x 6 = 3

(d) 3 x 8 - 9 + 6 = 3

Answer: (b)

15. If 'x' stands for addition, '÷' stands for subtraction, ' +' stands for multiplication and '-' stands for division, then what is the value 35 + 8- 5 x 6 ÷7= ?

(a) 30

(b) 55

(c) 49

(d) 50

Answer: (b)

16. If the given interchanges are made in signs and numbers, which one of the following equations would be correct?
Given interchanges:
Signs: x and –
Numbers: 5 and 6

(a) 5 - 3 x 6 = 22

(b) 5 x 3 -6 = 18

(c) 5 - 6 x 4= 26

(d) 5 x 6 - 8 = 12

Answer: (c)

17. Select the correct combination of mathematical signs to replace * signs and to balance the following equation.
(11*75* 15) * 2 * 57

(a) ÷ + x =

(b) x ÷ + =

(c) + ÷ x =

(d) x + ÷ =

Answer: (b)

18. If '+' means '-', '-' means 'x', '×' means '÷', and '÷' means '+', then 18 x 6 ÷ 2 - 6 + 4 =?

(a) 9

(b) 15

(c) 13

(d) 11

Answer: (d)

20. A father said to his son, " My age was half of your present age at the time of your birth." If the father's present age is 63 years, the son's age five years back was:

(a) 24 years

(b) 30 years

(c) 37 years

(d) 42 years

Answer: (c)

General Awareness

21. How many times has India won the ICC Cricket World Cup?
    (a) One
    (b) Two
    (c) Three
    (d) Four
    Answer: (b)

22. A non-performing asset (NPA) is a classification used by banks to refer to:
    (a) investment in risky sectors
    (b) vault cash kept with RBI that does not yield any interest rate
    (c) an asset that does not grow in value proportionate to the growth of the economy
    (d) loans those are liable to be defaulted
    Answer: (d)

23. Who was appointed as the first and the only Indian Governor- general of India in 1948?
    (a) C. Rajagopalchari
    (b) Sarvepalli Radhakrishnan
    (c) B.R. Ambedkar
    (d) Rajendra Prasad
    Answer: (a)

24. How many seats were won by Congress during 16th Lok Sabha Elections in 2014?
    (a) 44
    (b) 48
    (c) 40
    (d) 84
    Answer: (a)

25. Given are the states that underwent an alteration of names in the constitutional history. Match them with their correct years, respectively.
States and their new names Year
1 Orissa/Odisha i 2007
2 Mysuru /Karnataka ii 1969
3 Uttaranchal/Uttarakhand iii 2011
4 Chennai /Tamil Nadu iv 1973
    (a) 1- ii, 2- iv, 3- i, 4- iii
    (b) 1- iii, 2- i, 3- iv, 4- ii
    (c) 1- iv, 2- i, 3- ii, 4- iii
    (d) 1- iii, 2- iv, 3- i, 4- ii
    Answer: (d)

26. Who among the following was the most renowned musician in the court of the Mughal emperor Akbar ?

(a) Muhammad Shah
(b) Mian Tansen
(c) Raja Man Singh
(d) Ali Khan Karori

Answer: (b)

27. What is the Biochemical Oxygen Demand (BOD) of clean water?

(a) Less than 5 ppm
(b) Less than 6 ppm
(c) Less than 6.5 ppm
(d) Less than 6.9 ppm

Answer: (a)

28. Which monument among these was declared as a UNESCO World heritage site in 1993?

(a) Jantar Mantar
(b) Red Fort
(c) Agra Fort
(d) Humayun's Tomb

Answer: (d)

29. Which among these is a scalar quantity?

(a) Pressure
(b) Displacement
(c) Force
(d) Momentum

Answer: (a)

30. Which is a natural olfactory indicator?

(a) Potato
(b) Cauliflower
(c) Onion
(d) Brinjal

Answer: (c)

31. When did the Partition of Bengal take place?

(a) 1903
(b) 1905
(c) 1904
(d) 1906

Answer: (b)

32. Which of the following states or Union Territory has the best sex ratio according to census of India 2011?

(a) Chhattisgarh
(b) Tamil Nadu
(c) Puducherry
(d) Andhra Pradesh

Answer: (c)

33. Protima Gauri Bedi or Protima Bedi was mainly known for which of the following Indian classical dances?

(a) Sattriya
(b) Odissi
(c) Kathakali
(d) Mohiniyattam

Answer: (b)

34. During which of the following months the festival Onam is celebrated?

(a) January - February
(b) August – September
(c) May – Jun
(d) October - November

Answer: (b)

35. Which of the following is the India's first develo ent finance institution?

(a) Industrial Finance Corporation of In IFC d.)
(b) Industrial Credit and Investment Corpora (ICICI)
(c) Industrial Development Bank of India (IDBI)
(d) Industrial Investment Bank of India Ltd. (IIBI)

Answer: (a)

36. In context of Instruments of monetary policy, CRR stands for:

(a) Cash reserve ratio
(b) Cash reserve rate
(c) Current repo rate
(d) Current reserve ratio

Answer: (a)

37. Pushkar, which is a holy place for Hindus is located in which of the following states of India?

(a) Haryana
(b) Delhi
(c) Gujrat
(d) Rajasthan

Answer: (d)

38. In medieval times all those who adopted Islam as their religion had to accept, in principle, the _____ pillars of the faith.

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

Answer: (c)

39. The Government run by the Priests in the name of God is termed as

(a) Autocracy
(b) Democracy
(c) Theocracy
(d) Plutocracy

Answer: (c)

40. Which sportsperson is fondly called as 'The Flying Sikh'?

(a) Sardar Singh
(b) Milkha Singh
(c) Bishan Singh
(d) Dara Singh

Answer: (b)

General English

63. Choose the correct meaning of the following idiom from the options given below:
Shoulder to shoulder

(a) to be in dismay
(b) to live in happiness
(c) to work in cooperation
(d) to rise in protest

Answer: (c)

64. Choose the correct one word substitution of the given sentence from the options given below:
Study of cells

(a) Cytology
(b) Astronomy
(c) Cosmology
(d) Botany

Answer: (a)

65. Choose the INCORRECTLY spelt word from the given options.

(a) Mature

(b) Ensure

(c) Asure

(d) Manure

Answer: (c)

66. Choose the INCORRECTLY spelt word from the given options.

(a) Volunteer

(b) Responsebility

(c) Immediately

(d) Receipt

Answer: (b)

67. Read the given dialogue and then select the most appropriate idiom connected with the communication problem.
Mrs. Brown: Honey, I paid ₹5,000 only. Isn't that awesome?
Mr. Brown: So, you paid ₹5,000 for a meal in that eatery! That's really too much.
Mrs. Brown: Oh God! You are just impossible. I paid that for the room charges, not the meal.
Mr. and Mrs. Brown seem to be _____.

(a) talking at cross-purposes

(b) at each other's throats

(c) talking behind each other's back

(d) seeing eye to eye

Answer: (a)

68. Fill in the blank by choosing the most appropriate option:
Upon seeing their father at the door, the children let out a _____ of delight.

(a) groan

(b) sigh

(c) scream

(d) wail

Answer: (c)

69. Choose the best option which can be substituted for the given expression.
Killing of a race or mass of people

(a) Homicide

(b) Suicide

(c) Genocide

(d) Patricide

Answer: (c)

70. Choose the opposite of the given word.
Indispensable

(a) Unimportant

(b) Essential

(c) Vital

(d) Imperative

Answer: (a)

71. Choose the word from the options that is closest in meaning to the given word.
Whimsical

(a) Standard

(b) Regular

(c) Cheerful

(d) Fanciful

Answer: (d)

72. S1 and S6 are the first and last sentences respectively. Select the option that gives the correct order of the sentences P,Q,R,S to form a meaningful paragraph:
S1. Nature writing is nonfiction or fiction prose or poetry about the natural environment.
P. Nature writing encompasses works, that emphasise natural history facts and those in which philosophical interpretations predominate.
Q. In addition, this writing also heavily draws on scientific information and facts about the natural world.
R. Such factual and philosophical writing includes natural history essays as well as travel and adventure writing.
S. This same scientific information is reflected in modern nature writing.
S6. However, the focus of this modern nature writing seems to have shifted a little.

(a) PRQS

(b) QPRS

(c) SRQP

(d) SRPQ

Answer: (a)

73. Rearrange the parts to form a meaningful sentence:
P. the seventy delegates
Q. received by the Prime minister R. from European countries
S. were cordially

(a) PQRS

(b) PSQR

(c) PRSQ

(d) PSRQ

Answer: (c)

77. Select the option that completes the following statement correctly.
The town of Kallar is located:

(a) on the way from Trivandrum to Ponmudi.
(b) between Kallar Bridge and Meenmutti waterfall.
(c) between Golden Valley and Trivandrum.
(d) in the Golden Valley.

Answer: (a)

78. What kind of tourist may NOT want to visit Kallar?

(a) One who loves nature and birds
(b) One who loves serenity and calmness
(c) One who wants a lot of action and excitement
(d) One who likes offbeat places

Answer: (c)

79. What activity can a tourist enjoy in the Golden Valley?

(a) Bird watching
(b) Butterfly watching
(c) Conversation with travellers
(d) Bathing in a stream

Answer: (d)

80. 'Kallar, which looks no less than a painting' mear

(a) Kallar looks less beautiful than a painting.
(b) paintings of Kallar look more beauti
(c) Kallar looks as beautiful as a painting.
(d) there are very few paintings of Kallar.

Answer: (c)

Discipline1

101. Which among the following is not a cause of incidents due to poor housekeeping?

(a) Slipping on greasy, wet or dirty surfaces
(b) Tripping over loose objects on floors, stairs and platforms
(c) Striking against projecting, poorly stacked items or misplaced material
(d) Stacking of files in an order

Answer: (d)

102. Which is not considered as a responsibility of good housekeeping program?

(a) Clean up during the shift
(b) Dumping of unused materials
(c) Day to day cleanup
(d) Inspection to ensure cleanup is complete

Answer: (b)

103. Which is the benefit of good housekeeping practices?

(a) Reduced property damage by improving preventive maintenance

(b) Unhygienic conditions due to poor maintenance

(c) More janitorial work

(d) Increased fire hazards

Answer: (a)

104. Which among the following is not included in the plan written by disposal group leader?

(a) Waste characteristics

(b) Site characteristics

(c) Regulatory permits and approvals

(d) Number of fire extinguishers

Answer: (d)

105. Which is not a characteristic of hazardous material?

(a) Ignitability

(b) Corrosivity

(c) Toxicity

(d) Responsive

Answer: (d)

106. The heading written in black letters on a yellow b kground and is preceded by the safety alert symbol is a

(a) Warning sign

(b) Caution sign

(c) Notice sign

(d) General safety sign

Answer: (b)

107. Which of the following is not Recommended Actions for Handling and Disposal of Carcasses During Burial and Landfill of noninfectious material?

(a) Avoid free liquids by using absorbent material

(b) Minimize odors with quick efficient handling

(c) Bury as soon as possible

(d) Monitor air for presence of bacteria

Answer: (d)

108. The symbol drawn within a black equilateral triangle which can also include yellow background indicates?

(a) Hazard alerting

(b) Mandatory action

(c) Prohibition

(d) Information

Answer: (a)

109. NEC stands for:

(a) National Environmental Code

(b) National Electrical Code

(c) National Electrical Control

(d) National Environmental Control

Answer: (b)

110. The square (or rectangular) surround shape is typically used to convey equipment location, places of exit, and permitted actions indicates

(a) Hazard alerting

(b) Mandatory action

(c) Prohibition

(d) Information

Answer: (d)

111. Which of the following would be the most likely indication of an electrical circuit overload?

(a) Notification by OSHA

(b) Noise at the switch board

(c) Breaker tripping and shutting off all the power

(d) Burnt hands

Answer: (c)

112. Identify the procedure which protects the electri n from accidental or unanticipated instrument startup.

(a) Tagging the tool before use

(b) Comply with the globally harmonized sy

(c) Constant monitoring of instrument

(d) Lockout / tagout procedures

Answer: (d)

113. Large, silver extinguishers that are filled with ordinary tap water with two third of the way and then pressurized normal air are:

(a) Carbon dioxide extinguishers

(b) Air pressurized water extinguishers

(c) Dry chemical extinguishers

(d) Midair hassled extinguishers

Answer: (b)

114. Identify the correct sequence of use of a fire extinguisher.

(a) Pull the pin-squeeze the top handle-aim at the base of fire-sweep from side to side

(b) Aim at the base of fire-pull the pin-sweep from side to side-squeeze the top handle

(c) Aim at the base of fire-pull the pin-squeeze the top handle-sweep from side to side

(d) Pull the pin-aim at the base of fire-squeeze the top handle-sweep from side to side

Answer: (d)

115. As per BIS standerds 1:Y (Y>1) is a:

(a) Reduced scale

(b) Enlarging scale

(c) Full size scale

(d) Lath scale

Answer: (a)

116. Representative Factor (R.F) is:

(a) Length of an object on the drawing over actual length of object

(b) actual length of object over Length of an object on the drawing

(c) One over Length of an object on the drawing

(d) One over actual length of object

Answer: (a)

117. The relation between the dimension on the drawing and the actual dimension of the object is mentioned numerically is:

(a) Engineer scale

(b) Plane scale

(c) Vernier scale

(d) Comparative scale

Answer: (a)

118. Match List-I with List-II and select the correct answers using the codes given below.
LIST - I LIST -2
A. Class Bricks 1. Ground Moulded and burnt in clamps.
B. Class Bricks 2. Over Burnt bricks with dark colour. C. Class bricks 3. Ground moulded and burnt in kilns D. Class bricks 4. Table moulded and burnt in kilns

(a) A-4, B-2, C-3, D-1

(b) A-4, B-3, C-1, D-2

(c) A-3, B-4, C-1, D-2

(d) A-2, B-1, C-3, D-4

Answer: (b)

119. Match List-I with List-II and select the correct answers using the codes given below.
LIST -I LIST-II
A. Poor Lime 1. Slaked Lime
B. Water lime 2. Quick Lime
C. High calcium lime 3. Lean Lime
D. Caustic Lime 4. Fat Lime
E. Hydrate of Lime 5. Hydraulic Lime

(a) A-3, B-1, C-2, D-4, E-5

(b) A-3, B-2, C-1, D-5, E-4

(c) A-3, B-5, C-4, D-2, E-1

(d) A-3, B-4, C-5, D-1, E-2

Answer: (c)

Discipline2

121. For under water construction which type of cement is used:

(a) Expanding cement
(b) Rapid hardening cement
(c) Quick setting cement
(d) Hydrophobic cement

Answer: (c)

122. When drawing ellipses in an isometric drawing, the isocircle prompts of the _____ command line sequence must be used.

(a) Ellipse
(b) Circle
(c) Line
(d) Polyline

Answer: (a)

123. A View in which all three axes appear at equal 120 ° angles with the plane of projection is known as:

(a) Orthographic drawing
(b) Isometric drawing
(c) Oblique drawing
(d) Perspective drawing

Answer: (b)

124. Asphalt is _____ in colour.

(a) Black or brownish black
(b) Dark Black
(c) Black or Brown
(d) Dark Brown

Answer: (a)

125. A bitumen mix consisting of bitumen thinner and a inert filler is:

(a) Blow Bitumen
(b) Plastic Bitumen
(c) Straight run bitumen
(d) Bitumen emulsion

Answer: (b)

126. Unequal settlement of subsoil is due to:

(a) Unequal distribution of load
(b) Varying bearing power of subsoil
(c) Eccentricity of load
(d) All of the given options

Answer: (d)

127. Match the given List I with List IIas per the defnitions
List I List II
A. Bearing Power of the Soil 1.The maximum Pressure that a soil can bear without any risk of shear failure B. Maximum Safe bearing capacity of soil 2. Excess pressure in the intensities of gross pressure after construction of the structure to original overburden pressure C. Allowable bearing pressure on the soil 3. Maximum pressure that can be exerted on a soil while taking shear failure and settlement to account D. Net pressure intensity 4. Maximum load per unit area which the soil will resist safely without displacement.

(a) A-4, B-1, C-2, D-3

(b) A-4, B-1, C-3, D-2

(c) A-4, B-2, C-3, D-1

(d) A-4, B-3, C-1, D-2

Answer: (b)

128. Which of the following is type of scaffolding?

(a) Racking

(b) Flying

(c) Dead

(d) Needle

Answer: (d)

129. Underpinning is done at length of:

(a) 1 - 1.2 m

(b) 1.2 - 1.5 m

(c) 1.5 - 2.5 m

(d) 2 - 3 m

Answer: (b)

130. To avoid the cracks in the wall of an building with settlements in existing foundation, _____ technique is employed.

(a) Shoring

(b) Jacking

(c) Scaffolding

(d) Underpinning

Answer: (d)

131. Which of the metal sheets used in damp proofing does not require any coating on it?

(a) Copper

(b) Aluminium

(c) Lead

(d) Both A and B

Answer: (a)

132. Which of the following is not a defect caused by dampness?

(a) Lead to corrosion of metal
(b) Promote growth of termite
(c) Deteriorate electrical fitting
(d) Ground water recharge

Answer: (d)

133. Which of the following is post construction treatment in anti-termite treatment?

(a) Treatment of top surface of plinth filling
(b) Treatment of soil surrounding pipe
(c) Treatment of void in masonry
(d) Treatment of wall trenches

Answer: (c)

134. Inner surface of the arch is called as:

(a) Extrados
(b) Soffit
(c) Key stone
(d) Skew back

Answer: (b)

135. Inclined or Splayed surface of abutment prepared to receive the arch is called:

(a) Crown
(b) Haunch
(c) Spandril
(d) skewback

Answer: (d)

136. The extent of reinforcement in case of RCC Lintel depends on A. SPAN OF THE LINTEL
B. WIDTH OF OPENING
C. GRADE OF CONCRETE

(a) Only A
(b) Only C
(c) Both A and B
(d) All A, B and C

Answer: (c)

137. Usually 15 cm deep lintels found to be safe for span upto:

(a) 1 m length
(b) 1.2 m length
(c) 1.5 m length
(d) 2 m length

Answer: (b)

138. _____ is the term applied to the fixing of small timber battens to timber walls, to which lathes and boards are to be nailed.

(a) Nosing
(b) Studding
(c) Rebating
(d) Wain-scot

Answer: (b)

140. In Timber joints, a fastening which is in the form of iron clout, square and tapering, with rough sides is known as

(a) Cut nails
(b) Lath nails
(c) Pins
(d) Floor brads

Answer: (b)

Discipline3

142. If faced with a casualty as a result of, or in the vicinity of, dangerous high voltage electricity, do not approach, Stay at least _____ away from the casualty until the power has been switched off by an official agency i.e. The Electricity Board.

(a) 10 meter
(b) 15 meter
(c) 25 meter
(d) 50 meter

Answer: (c)

143. Which of the following is a method of artificial respiration? a. Schaffer's method
b. Sylvester's method

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

Answer: (c)

144. Exposure to electricity can cause burns to the skin, Cool burns for a minimum of 10 minutes under cold water and do not _____.

(a) Apply ice
(b) leave damaged skin
(c) Affix dressings loosly
(d) leave damaged clothing

Answer: (a)

145. In Engineers Chain, tallies are provided at every _____.

(a) 5 links

(b) 10 links

(c) 7 links

(d) 2 links

Answer: (b)

146. For an area exceeding 250 Km 2 _____ Surveying is preferred.

(a) Plane surveying

(b) Photographic Surveying

(c) Land Surveying

(d) Geodetic Surveying

Answer: (d)

147. Find the magnetic declination at a place if the magnetic bearing of Sun at noon is 186°:

(a) 6° W

(b) 6° E

(c) 174° W

(d) 174° E

Answer: (a)

148. Which of these errors are classified as errors du natural causing?

(a) Sluggish Needle

(b) Inaccurate Centering

(c) Local attractions due to proximity o actions

(d) Blunt Pivot Point

Answer: (c)

149. Instrument used to take inclined slight in a plane table survey is:

(a) plane alidade

(b) compass

(c) telescopic alidade

(d) spirit level

Answer: (c)

150. The Basic objective of leveling is to determine:
A. The relative of heights of different objects on the surface of the earth B. The relative of heights of different objects below the surface of the earth C. The heights of the object on the surface of earth

(a) Only A

(b) Only B

(c) Both A and B

(d) Only C

Answer: (c)

151. In a modern tilting level,
A. The telescope can be tilted about its Horizontal axis with help of tilting screw B. The telescope can be tilted about its Vertical axis with help of tilting screw

(a) A is True B is False

(b) A is False B is True

(c) Both A and B False

(d) Both A and B True

Answer: (a)

152. Axis of telescope is:

(a) Imaginary line passing through the optical centre of the object glass and optical centre of eye piece

(b) Imaginary line tangential to the horizontal curve of the bubble tube

(c) Imaginary line passing through the intersection of the cross hairs at the diaphragmand optical centre of object glass

(d) Line lying on the horizontal plane

Answer: (a)

153. Fly levelling conducted at the end of days work to connect the starting point and finishing point of that day is called:

(a) Check levelling

(b) Simple levelling

(c) Differential levelling

(d) Reciprocal levelling

Answer: (a)

154. Depression between summits are called:

(a) Saddle

(b) Valley

(c) Vertical Cliff

(d) Overhanging Cliff

Answer: (a)

155. In reference to theodolite following statements are given:
Statement A. Theodolite is used for Measurement of Bearings Statement B. Theodolite is used for Ranging of lines

(a) Statement A is True and Statement B is False

(b) Statement A is False and Statement B is True

(c) Statement A and Statement B are False

(d) Statement A and Statement B are true

Answer: (d)

156. In permanent adjustment of theodolite, spire test is done for:

(a) Adjustment of plate level

(b) Adjustment of horizontal axis

(c) Adjustment of line of sight

(d) Adjustment of altitude bubble and vertical index frame

Answer: (b)

157. Telescope normal is also referred as:

(a) Bubble up

(b) Bubble down

(c) Transiting

(d) Swinging

Answer: (a)

158. For rail and road surveys the permissible angular error is:

(a) 1' X sqrt N

(b) 30" X sqrt N

(c) 15" X sqrt N

(d) 20" X sqrt N where N is the number of sides of traverse

Answer: (a)

159. Error due to eccentricity of inner axis and outer a of theodolite can be eliminated by:

(a) Double sighting

(b) Reading both Vernier's and taking mean of t n

(c) By taking mean of observations ove portion of circle

(d) By take both face observations

Answer: (b)

160. The pitch and speed of a moving stairs generally is:

(a) 30° and 450 mm/second

(b) 30° and 300 mm/second

(c) 45° and 350 mm/second

(d) 45° and 450 mm/second

Answer: (a)

Discipline4

161. The inclined members which prevent the principal rafters from bending is the middle is called as:

(a) Strut

(b) King post

(c) Cleat

(d) Purlin

Answer: (a)

162. Which of the following is type of flat roof?

(a) Mud terrace roofing

(b) Collar roof

(c) Scissors roof

(d) Coupled roof

Answer: (a)

163. Which of the following is not a property of asbestos sheet roof covering?

(a) Light

(b) Need protective paint

(c) Cheap

(d) Fire resistant

Answer: (b)

164. According to National Building Code, the minimum aggregate area for openings excluding doors inclusive of frames for a room in hot-humid climate shall not be less than

(a) 1/6th of the Floor Area

(b) 1/8th of the Floor Area

(c) 1/10th of the Floor Area

(d) 1/12th of the Floor Area

Answer: (a)

165. In low cost housing construction, CSEB refers tr

(a) Compressed stabilized earth block

(b) Complete stress earth block

(c) Compressed standard earth block

(d) Complete stabilized earth block

Answer: (a)

166. As per NBC, all the State Governments to incorporate and implement the latest _____ "Fire & Life Safety" in their building bye-laws.

(a) National Building Code of India 2016 Part – IV

(b) National Building Code of India 2016 Part – II

(c) National Building Code of India 2016 Part – I

(d) National Building Code of India 2016 Part – III

Answer: (a)

167. Ribbon can be restored in autocad by:

(a) Enter ribbon in command line

(b) In display menu

(c) In file menu

(d) In option menu

Answer: (a)

168. Which of the following is Principles of Building Planning where sun, breeze, outside scenery is considered?

(a) Aspect
(b) Prospect
(c) Privacy
(d) Elegance

Answer: (a)

169. If you have a right _____. You can achieve good passive solar performance at minimal cost.

(a) Area
(b) Space
(c) Location
(d) Site

Answer: (d)

170. Which key is used to toggel the orthomode in AutoCAD?

(a) F7
(b) F8
(c) F9
(d) F5

Answer: (b)

171. North light trusses are generally provided in:

(a) Residential Buildings
(b) Commercial Buildings
(c) Industrial Buildings
(d) Institutional Buildings

Answer: (c)

172. GRIHA refers to:

(a) Green Rating for International Habitat Assessment
(b) Green Rating for Integrated Housing Assessment
(c) Green Rating for Integrated Habitat Assessment
(d) Green Rating for Integrated Habitat Accreditation

Answer: (c)

173. Which of the following does not play significant role in the site selection for Industries?

(a) Nearness to markets
(b) Nearness to related industries
(c) Nearness to source of supply of raw material
(d) Nearness to the city

Answer: (b)

174. Which of the following is disadvantage of prefabricated strucutre?

(a) Large prefabricated structures require heavy-duty cranes & precision measurement and handling to place in position.

(b) Quality control can be easier in a factory assembly line setting than a construction site setting.

(c) Prefabrication can be located where skilled labour, power materials space and overheads are lower.

(d) Time spent in bad weather or hazardous environments at the construction site is minimized

Answer: (a)

175. In assembly of prefabricated structure, Type of Modular Grid practised are: a) Continuous grid
b) Superimposed grid
c) Displacement of grid

(a) Only a and b

(b) Only b and c

(c) Only c and a

(d) All a, b and c

Answer: (d)

176. Which of the following is not a benefit of prefabrication construction?

(a) Eco friendly

(b) Flexibility

(c) Safety

(d) Delay in construction time

Answer: (d)

177. The normal minimum of size of aggregate should not be greater than:

(a) 1/3rd of Minimum thickness of member.

(b) 1/4th of Minimum thickness of member.

(c) 1/8th of Minimum thickness of member.

(d) 1/5th of Minimum thickness of member.

Answer: (b)

179. Slump test is not suitable for concrete whose maximum size of course aggregate exceeds:

(a) 20 mm

(b) 25 mm

(c) 30 mm

(d) 40 mm

Answer: (d)

180. In Bearing type of connections, the hole diameter in base plate shall not exceed the anchor bolt dia by more than:

(a) 2 mm
(b) 3 mm
(c) 4 mm
(d) 6 mm

Answer: (d)

Discipline5

181. The most suitable section for column is:

(a) ISLB
(b) ISMB
(c) ISHB
(d) Both A and B

Answer: (c)

182. Factor of safety of how much is adopted for tension members and beams in working stress method?

(a) 1.64
(b) 1.65
(c) 1.66
(d) 1.67

Answer: (d)

183. In CAD software, a keyboard shortcut wh[illegible]sed for toggles 3D object snap on/off is:

(a) F1
(b) F2
(c) F3
(d) F4

Answer: (d)

184. In CAD software, a keyboard shortcut of Ctrl+Shift+V is used to:

(a) Paste from clipboard into window
(b) Paste a block into the window
(c) Close the AutoCAD window
(d) Open the save drawing as dialog

Answer: (b)

185. A keyboard shortcut, which is used to close the AutoCAD window is:

(a) Ctrl+Y
(b) Ctrl+N
(c) Ctrl+9
(d) Ctrl+Q

Answer: (d)

186. Which type of earthquake is produced in the same plate along some existing inland faults?

(a) Intraplate crustal earthquakes

(b) Interplate crustal earthquakes

(c) Intraslab earthquakes

(d) Extrapotential earthquakes

Answer: (a)

187. In a robust structure, the resistance to seismic loads does not disappear suddenly after the maximum action is reached and the structure will stand up, permitting evacuation and repair with an acceptable expense. In this condition, the structure failure can be defined as:

(a) ductile collapse

(b) brittle catastrophic collapse

(c) elliptical collapse

(d) twisting collapse

Answer: (a)

188. Which of the following is an indirect effect of earthquake?

(a) Earthquake vibration may cause landslides

(b) Soil vibration can shake a building off its foundation

(c) Seismic waves can destroy buildings

(d) Violent movement of seafloor may cause tsunamis

Answer: (d)

189. Aims of house drainage is:
a) To maintain healthy conditions in the building b) To dispose off waste water as early as possible
c)To collect and remove waste matters systematically

(a) Only a

(b) Both a and b

(c) Both a and c

(d) All a, b and c

Answer: (d)

190. water flushed plumbing fixture designed to receive the human excreta directly and is connected to the soil pipe by means of a trap are called

(a) Water closet

(b) Urinals

(c) Wash basins

(d) Bath tubs

Answer: (a)

191. Depending on shape which of the following is a trap:

(a) Floor trap
(b) Q trap
(c) Gully trap
(d) Intercepting trap

Answer: (b)

192. Bowl type and Stall type are types of:

(a) Water closet
(b) Urinals
(c) Wash basins
(d) Bath tubs

Answer: (b)

193. Squatting and pedestal are types of:

(a) Water closet
(b) Urinals
(c) Wash basins
(d) Bath tubs

Answer: (a)

194. Which of the following is not a solution for manh failures?

(a) Grouting
(b) Installing compactors
(c) Providing manhole liner
(d) Enabling corrosion protection

Answer: (b)

195. In National Highways Gradient should be _____ the ruling gradient.

(a) Equal to
(b) Less than
(c) Greater Than
(d) Not related to

Answer: (a)

196. Which type of transition curve is recommended by Indian Road Congress in the horizontal alignment of highways?

(a) Lemniscate.
(b) Clothoid.
(c) Parabola.
(d) Cubic Parabola.

Answer: (b)

197. In roads Sub-surface drainage is provided when:

(a) Ground water level is high

(b) Land slide

(c) Shrinkage of soil

(d) Cracks in pavement

Answer: (a)

198. Cable stayed bridges are preferred when the span is:

(a) lesser than 100 meters

(b) Less than 150 meters

(c) Greater than 150 meter

(d) Equal to 150 meter

Answer: (c)

199. The impact factor used in the design of bridge decks is always inversely proportional to the:

(a) width of the bridge deck

(b) span length

(c) material used in construction

(d) type of vehicle

Answer: (b)

200. A False statement regarding the Box culverts is:

(a) Box culverts are economical due to their rigid and monolithic action

(b) Separate foundations are required since the bottom slab resting directly on the soil, serves as raft slab

(c) For small discharges, single celled box culvert is used

(d) The barrel of the box culvert should be of sufficient length to accommodate the carriageway and the kerbs.

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 Ability

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

General Awareness

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

General English

63	**(c)**	64	**(a)**	65	**(c)**	66	**(b)**	67	**(a)**	68	**(c)**
69	**(c)**	70	**(a)**	71	**(d)**	72	**(a)**	73	**(c)**	77	**(a)**
78	**(c)**	79	**(d)**	80	**(c)**						

Discipline1

101	**(d)**	102	**(b)**	103	**(a)**	104	**(d)**	105	**(d)**	106	**(b)**
107	**(d)**	108	**(a)**	109	**(b)**	110	**(d)**	111	**(c)**	112	**(d)**
11	**(b)**	114	**(d)**	115	**(a)**	116	**(a)**	117	**(a)**	118	**(b)**
119	**(c)**										

Discipline2

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

Discipline3

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

Discipline4

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

Discipline5

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