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1. Common type of stone used as railway ballast is :

   (A) Basalt and Trap (B) Marble

   (C) Slate (D) Sand stone

2. Which is not used for building construction?

   (A) Pre – stressed concrete (B) P.C.C.

   (C) R.C.C. (D) None of these

3. Bulking of sand is greater for ——————— sand at a particular moisture content.

   (A) Fine (B) Medium

   (C) Coarse (D) Gravelly

4. The commonly used vehicle in oil paint are :

   (A) Zinc Oxide (B) Turpentine oil

   (C) White lead (D) Linseed oil

5. Coarse aggregate used for production of concrete is :

   (A) Sand (B) Stone chips

   (C) Cement (D) All of the above

6. TMT stands for :

   (A) Thermo Mechanically Treated (B) Twisted, Moulded and Tied

   (C) Thermo Mechanically Twisted (D) Tested and Mechanically Twisted

7. Most commonly used retarder in cement manufacture :

   (A) Calcium chloride (B) Gypsum

   (C) Calcium carbonate (D) None of these

8. The initial and final setting time of OPC is :

   (A) 15 minutes and 45 minutes (B) 20 minutes and 1 hour

   (C) 30 minutes and 10 hours (D) 5 minutes and 30 minutes

A 3

9. The process of heating of lime to redness is called :

    (A) Carbonation   (B) Oxidation

    (C) Calcination   (D) Hydration

10. Which of the following is an ingredient present both in cement and bricks?

    (A) Iron oxide   (B) Magnesium

    (C) Alumina   (D) Alkalies

11. The full strength of concrete is achieved after :

    (A) 7 days   (B) 14 days

    (C) 21 days   (D) 28 days

12. M20 stands for the mix proportion :

    (A) $1:3:6$ (B) $1:2:4$

    (C) $1:1\frac{1}{2}:3$ (D) $1:1:2$

13. Apparatus used to determine normal consistency of cement is :

    (A) Compression testing machine   (B) Slump cone

    (C) Impact testing machine   (D) Vicat's apparatus

14. Addition of potassium permanganate to impure water makes it :

    (A) Odourless   (B) Colourless

    (C) Transparent   (D) Non - turbid

15. Which of the following industry consumes more than a million quantity of water?

    (A) Tyre   (B) Steel

    (C) Printing press   (D) Paper

16. The domestic consumption of water supply in India is maximum for :

    (A) Bathing   (B) Cooking

    (C) Washing   (D) Drinking

17. A thermo hydrograph is a continuous record of :

    (A) Temperature and pressure of atmosphere

    (B) Temperature and humidity of atmosphere

    (C) Solar radiation and wind speed of atmosphere

    (D) None of the above

18. The problems faced during irrigation through canals are :

    (A) Silting   (B) Weed and plant growth

    (C) Weaker bank failure   (D) All of these

19. The shape given to a canal with lining is :

    (A) Trapezoidal   (B) Semi circular

    (C) Parabolic   (D) Elliptic

20. Instrument used to measure humidity is :

    (A) Hydrometer   (B) Hygrometer

    (C) Anemometer   (D) Speedometer

21. The ingredient of stainless steel which makes it corrosive :

    (A) Nickel   (B) Carbon

    (C) Sulphur   (D) Chromium

22. Paints most resistant to fire are :

    (A) Enamel paint   (B) Asbestos paint

    (C) Aluminium paint   (D) Cement paint

23. Couple close roof is suitable for span up to :

    (A) 2.5 m   (B) 3.5 m

    (C) 4.5 m   (D) 5.5 m

24. Hydraulic lime sets under water within :

    (A) 2 to 5 days   (B) 7 to 30 days

    (C) 2 to 3 months   (D) 3 to 6 months

25. The opening of flat roof for lighting purposes is :

    (A) Sky light   (B) Dormer window

    (C) Gable window   (D) Lantern window

26. For construction of 100 mm thick partition wall, it is preferable to use :

    (A) Garden bond   (B) Header bond

    (C) Stretcher bond   (D) Flemish bond

27. Average weight of bricks is :

    (A) 2 to 2.5 kg   (B) 3 to 3.5 kg

    (C) 5 to 5.5 kg   (D) 4 to 4.5 kg

28. The measurement of depth under water surface is called :

    (A) Reduced level   (B) Bench mark

    (C) Elevation   (D) Sounding

29. The process by which water flows out from fresh concrete is called :

    (A) Seggregation   (B) Hydration

    (C) Bleeding   (D) Sagging

30. The full form of GPS is :

    (A) Geographical positioning system   (B) Geopositioning system

    (C) Global positioning system   (D) None

31. The full form of SONAR is :

    (A) Sound Navigation and Ranging

    (B) Solar Navigation and Ranging

    (C) Sonographic Navigation and Ranging

    (D) Sonographic Navigation and Resourcing

32. Rock containing large quantities of clay are called :

    (A) Siliceous   (B) Calcareous

    (C) Argillaceous   (D) None of these

33. Cement contains ——————— % of lime.

    (A) 55   (B) 3
    (C) 62   (D) 75

34. Bricks should not absorb water more than ——————— % of its weight, when immersed in water for 24 hrs.

    (A) 5   (B) 20
    (C) 10   (D) 30

35. Which of the bricks are used for acidic lining?

    (A) Refractory bricks   (B) Silica bricks
    (C) Both (A) and (B)   (D) None of the above

36. Vertical posts placed at start and end of a flight are called :

    (A) Balustrade   (B) Balusters
    (C) Intrados   (D) Newel posts

37. The inner vertical sides of door and window openings are called :

    (A) Reveal   (B) Intrado
    (C) Extrado   (D) Jambs

38. Clinkers are formed at a temperature of about :

    (A) 500 °C   (B) 1000 °C
    (C) 1200 °C   (D) 1500 °C

39. The ingredient which imparts plasticity to bricks is :

    (A) Lime   (B) Alumina
    (C) Silica   (D) Iron Oxide

40. A comfortable air temperature for comfort air conditioning is :

    (A) 15 °C   (B) 18 °C
    (C) 21 °C   (D) 27 °C

41. Sunshade is an example of :

    (A) Cantilever beam   (B) Simply supported beam
    (C) Fixed beam   (D) Continuous beam

42. Educational buildings belong to :

  (A) Group A   (B) Group B

  (C) Group C   (D) Group D

43. Roof slab curing is carried out as :

  (A) Spray curing   (B) Membrane curing

  (C) Ponding   (D) Curing using jute bags

44. A row of arch in succession is called :

  (A) Conclave   (B) Multiple arch

  (C) Arch line   (D) Arcade

45. The term "Haunch" is related to :

  (A) Floor   (B) Stair

  (C) Masonry   (D) Arch

46. Maximum number of steps in a flight is limited to :

  (A) 10   (B) 12

  (C) 15   (D) 20

47. Which of the following has lowest bearing capacity?

  (A) Fine sand   (B) Moist clay

  (C) Coarse sand   (D) Gravel

48. Slump required for mass concreting is :

  (A) 25 to 50 mm   (B) 50 to 100 mm

  (C) 100 to 125 mm   (D) 125 to 150 mm

49. The optimum number of revolutions by which concrete is required to be mixed in a concrete mixer machine is :

  (A) 10   (B) 20

  (C) 50   (D) 100

50. RMC means :

    (A) Ready Mix Concrete   (B) Ready Made Concrete

    (C) Random Mix Concrete   (D) Random Made Concrete

51. Best location for D.P.C in a building is at :

    (A) Ground level   (B) Sill level

    (C) Plinth level   (D) Basement

52. Quarter turn stair turns through an angle of :

    (A) $180°$ (B) $0°$

    (C) $90°$ (D) $270°$

53. The angle of intersection of the two plane mirrors of an optical square is :

    (A) $30°$ (B) $45°$

    (C) $60°$ (D) $90°$

54. In a 30 m chain, tallies are fixed at every :

    (A) 1 m   (B) 2 m

    (C) 3 m   (D) 5 m

55. In a change point :

    (A) Only back sight is taken   (B) Only fore sight is taken

    (C) Both back and fore sights are taken (D) Intermediate sight is taken

56. Invar tape is an alloy of :

    (A) Brass and copper   (B) Steel and copper

    (C) Steel and Nickel   (D) Nickel and chromium

57. A well conditioned triangle has angles between :

    (A) $20°$ and $100°$ (B) $30°$ and $120°$

    (C) $40°$ and $150°$ (D) $60°$ and $120°$

58. A plumb line is a :

    (A) Line parallel to vertical line   (B) A vertical line

    (C) A line perpendicular to level line (D) None of these

59. The vertical distance between any two consecutive contours is called :

(A) Contour interval

(B) Contour Gradient

(C) Vertical Equivalent

(D) Horizontal equivalent

60. A map represents the Earth's surface of :

(A) Smaller territory

(B) Equal territory

(C) Much smaller territory

(D) Larger territory

61. The height or depth of a point above or below the assumed datum is called :

(A) Bench mark

(B) Reduced level

(C) MSL

(D) Datum

62. Optical square is based on the principle of :

(A) Optical reflection

(B) Optical refraction

(C) Optical double reflection

(D) Optical double refraction

63. Process of turning the telescope in vertical plane through 180° about the trunnion axis of the theodolite is called :

(A) Swinging

(B) Transiting

(C) Plunging

(D) Reversing

64. Collimation method is otherwise called :

(A) Rise and fall method

(B) Height of instrument method

(C) Profile levelling

(D) Differential levelling

65. The horizon glass in an optical square is :

(A) Fully silvered

(B) Fully unsilvered

(C) 1/4th silvered and 3/4th unsilvered

(D) Half silvered and half unsilvered

66. The fundamental principle of surveying is to :

(A) Work from whole to part

(B) Work from part to whole

(C) Work from lower to higher level

(D) Work from higher to lower level

67. Simpson's rule is applicable to a —————— curved boundary :

    (A) Cubic parabolic   (B) Hyperbolic

    (C) Elliptic   (D) Parabolic

68. Last measurement in levelling will always be :

    (A) Back sight   (B) Fore sight

    (C) Intermediate sight   (D) Any of these

69. Optimum water cement ratio in concrete is:

    (A) 0.5 to 0.6   (B) 0.6 to 0.8

    (C) 0.3 to 0.4   (D) 0.4 to 0.5

70. The reaction of water with cement is called :

    (A) Hydration   (B) Hydrolysis

    (C) Oxidation   (D) Reduction

71. Strength of concrete is maximum for :

    (A) Compression   (B) Tension

    (C) Both (A) and (B)   (D) None of these

72. For a good concrete mix, aggregate should be :

    (A) Rounded   (B) Flaky

    (C) Elongated   (D) Fibrous

73. The diameter of square needle used to determine initial setting time is :

    (A) 1 mm   (B) 5 mm

    (C) 3 mm   (D) 10 mm

74. Commonly used vibrator in field concreting work is :

    (A) Needle vibrator   (B) Screen vibrator

    (C) External vibrator   (D) Roller

75. The reaction during hydration of cement is :

    (A) Exothermic   (B) Endothermic

    (C) Both (A) and (B)   (D) Either (A) or (B)

76. A septic tank is a :

    (A) Sedimentation tank

    (B) Digestion tank

    (C) Combined sedimentation and digestion tank

    (D) Aeration tank

77. The least accurate estimate is :

    (A) Supplementary estimate
    (B) Plinth area estimate
    (C) Revised estimate
    (D) Detailed estimate

78. Thickness of internal plastering is usually :

    (A) 6 mm
    (B) 10 mm
    (C) 20 mm
    (D) 12 mm

79. Water from kitchens, bathrooms, wash basin are collectively called :

    (A) Sewage
    (B) Sullage
    (C) Storm water
    (D) None of these

80. The trap provided at the intersection of sullage drain and main sewer is called :

    (A) Gully trap
    (B) P - trap
    (C) Silt trap
    (D) Q - trap

81. Which one of the following nations does not form part of SAARC?

    (A) Sri Lanka
    (B) Nepal
    (C) India
    (D) Indonesia

82. Who is known as Deenabandhu?

    (A) C.R. Das
    (B) Motilal Nehru
    (C) Dadabai Navroji
    (D) C F Andrews

83. World Water Day is observed on :

    (A) March 22
    (B) May 24
    (C) March 8
    (D) November 26

84. The newspaper Al-Islam was published by :
   (A) Muhammed Abdul Rahman
   (B) Vakkom Maulavi
   (C) Moulana Abul Kalam Azad
   (D) Firos Shah Mehta

85. Consumers Protection Act was passed in :
   (A) 1986
   (B) 1964
   (C) 1991
   (D) 1973

86. Who built a monastery at Aluva on the banks of river Periyar?
   (A) Vaikunda Swamikal
   (B) Mannathu Padmanabhan
   (C) Sree Narayanaguru
   (D) Sivanandha Sastri

87. Meenkara tourist spot is located in which district?
   (A) Palakkad
   (B) Wayanad
   (C) Idukki
   (D) Kottayam

88. Article 112 of our constitution deals with :
   (A) Foreign Policy
   (B) Equality
   (C) Fundamental Duties
   (D) Budget

89. Gandhiji's first satyagraha in India was at :
   (A) Dandi
   (B) Ahamedabad
   (C) Champaran
   (D) Kheda

90. Indian Institute of Petroleum is located at :
   (A) Pune
   (B) Nasik
   (C) Dehradun
   (D) Bhopal

91. Walker Cup is related with :
   (A) Cricket
   (B) Badminton
   (C) Chess
   (D) Golf

92. Who among the following was awarded 'Order of Friendship' by Russian Federation?

    (A) Gari Kasparov   (B) Viswanathan Anand

    (C) Yelena Isinbayeva   (D) Sania Mirza

93. Erbil International Airport is located in :

    (A) Iran   (B) Iraq

    (C) Turky   (D) Saudi Arabia

94. Chattampi Swamikal attained samadi at :

    (A) Panmana   (B) Varkala

    (C) Perunna   (D) Kannammoola

95. Who is the founder of Pakistan Tehreek-e-Insaf (PTI)?

    (A) Tahir -ul-Qadri   (B) Bilaval Bhutto

    (C) Imran Khan   (D) Purvez Musharuff

96. Dilwara Temple is related with :

    (A) Budhism   (B) Sikkism

    (C) Jainism   (D) Hinduism

97. Union Minister for Shipping :

    (A) Pon Radhakrishnan   (B) Nithin Gadkari

    (C) Smrithi Irani   (D) Prakash Javdeker

98. August Offer is related with which British Viceroy :

    (A) Lillithgow   (B) Mount Batton

    (C) Curzon   (D) Rippon

99. Al-Shabaab rebels are operating in :

    (A) Pakistan   (B) Somalia

    (C) Egypt   (D) Isreal

100. Founder of Abhinav Bharath Society :

    (A) Chandrasekhar Azad   (B) Subhash Chandra Bose

    (C) Bhagat Singh   (D) V.D. Savarkar