

Interview Questions

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[Home](#) » [BUILDING MATERIALS and CONSTRUCTION Questions](#) » **300+ TOP BUILDING MATERIALS and CONSTRUCTION Objective Questions and Answers**

300+ TOP BUILDING MATERIALS and CONSTRUCTION Objective Questions and Answers

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Building Materials and Construction Multiple Choice Questions :-

1. Gypsum is a

- mechanically formed sedimentary rock
- igneous rock
- chemically precipitated sedimentary rock
- metamorphic rock

Ans: c

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2. Which of the following sedimentary rocks changes into quartzite by metamorphic action ?

- a) sand stone
- b) lime stone
- c) shale
- d) gypsum

Ans: a

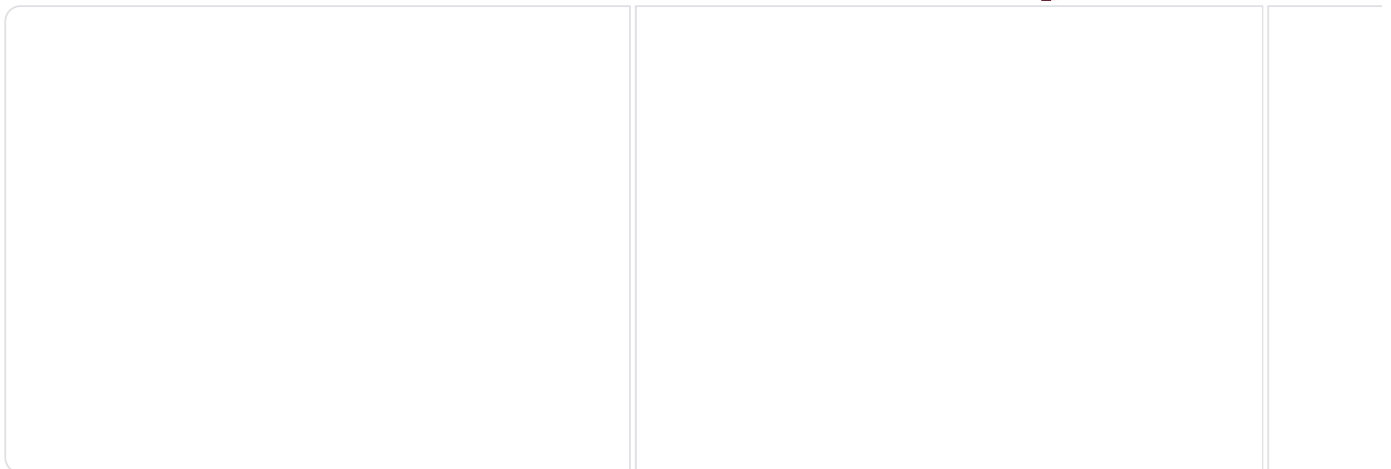
3. Which of the following represents a metamorphic rock?

- i) slate
- ii) shale
- iii) quartzite

The correct answer is

- a) only (iii)
- b) both (i) and (iii)
- c) both (ii) and (iii)
- d) all (i), (ii) and (iii)

Ans: b



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4. Quartzite is a

- a) silicious rock
- b) argillaceous rock
- c) calcareous rock
- d) aqueous rock

Ans: a

5. Which of the following is a mineral ?

- a) basalt
- b) granite

- c) quartz
- d) syenite

Ans: c

6. Slate is formed by metamorphic action on

- a) shale
- b) lime stone
- c) sand stone
- d) granite

Ans: a

7. Sandstone is a

- i) sedimentary rock
- ii) aqueous rock
- iii) silicious rock

The correct answer is

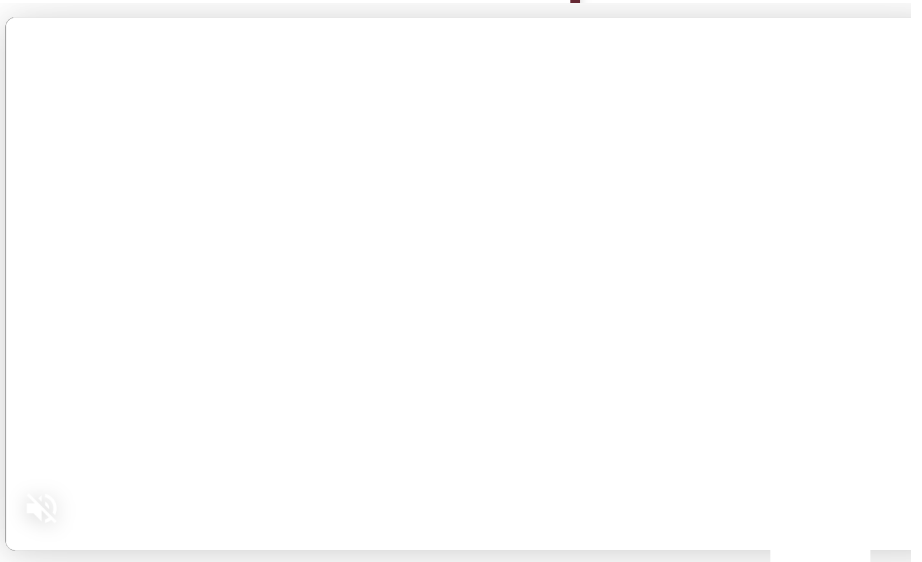
- a) only (i)
- b) both (i) and (ii)
- c) both (i) and (iii)
- d) all (i), (ii) and (iii)

Ans: d

8. Which of the following is a rock ?

- a) quartz
- b) mica
- c) gypsum
- d) none of the above

Ans: c



9. Based on the following rocks and minerals, select the correct statement, quartz, shale, basalt, granite, marble, gypsum, mica

- a) basalt and marble are the only metamorphic rocks
- b) there is no sedimentary rock
- c) granite is the only igneous rock
- d) quartz and mica are minerals

Ans: d

10. A heavy stone is suitable for

- a) arches
- b) rubble masonry
- c) roads
- d) retaining walls

Ans: d

11. The stone suitable for rubble masonry should be.

- a) hard
- b) tough
- c) heavy
- d) light

Ans: a

12. Which of the following metamorphic rocks has the most weather resisting characteristics?

- a) marble
- b) quartzite
- c) slate
- d) lime stone

Ans: b

13. A good building stone should not absorb water more than

- a) 5%
- b) 10%
- c) 15%
- d) 20%

Ans: a

14. Which of the following has more fire resisting characteristics ?

- a) marble
- b) lime stone
- c) compact sand stone
- d) granite

Ans: c

15. Jumper is a tool used for

- a) testing of stones
- b) quarrying of stones
- c) dressing of stones
- d) none of the above

Ans: b

16. The important test to be conducted on a stone used in docks and harbors is-

- a) hardness test
- b) work ability test
- c) weight test
- d) toughness test

Ans: c

17. The predominant constituent which is responsible for strength in granite is

- a) quartz
- b) feldspar
- c) mica
- d) none of the above

Ans: a

18. Granite is not suitable for ordinary building purpose because

- a) it can not be polished
- b) it is not a fire proof material
- c) it is costly
- d) it has less crushing strength

Ans: c

19. Which of the following stone is best suited for construction of piers and abutments of a railway bridge ?

- a) granite
- b) sand stone
- c) lime stone
- d) quartzite

Ans: a

20. The preparation of surface of stone to obtain plain edges or to obtain stones of required size and shape is known as

- a) quarrying of stones
- b) blasting of stones
- c) seasoning of stones
- d) dressing of stones

Ans: d

21. Crushing strength of a good building stone should be more than

- a) 50 MPa
- b) 100 MPa
- c) 150 MPa
- d) 200 MPa

Ans: b

22. Specific gravity for most of the building stones lies between

- a) 1.5 to 2.0
- b) 2.0 to 2.5
- c) 2.5 to 3.0
- d) 3.0 to 3.5

Ans: c

23. Spalling hammer is used for

- a) driving wooden headed chisels
- b) rough dressing of stones
- c) carving of stones
- d) breaking small projection of stones

Ans: b

24. Cross cut saw is used for

- a) cutting soft stones
- b) cutting hard stones
- c) cutting large blocks of stones
- d) dressing stones

Ans: b

25. Sapwood consists of

- a) innermost annular rings around the pith
- b) portion of timber between heartwood and cambium layer
- c) thin layers below the bark
- d) thin fibre which extends from the pith outwards and holds the annular rings together

Ans: b

26. Which of the following trees yields hard wood ?

- a) deodar
- b) chir
- c) shishum
- d) pine

Ans: c

27. The radial splits which are wider on the outside of the log and narrower towards the pith are known as

- a) heart shakes
- b) cupshakes
- c) starshakes
- d) rindgalls

Ans: c

28. In which of the following pairs both trees yield soft wood?

- a) deodar and shishum
- b) chir and sal

- c) sal and teak
- d) chir and deodar

Ans: d

29. Which of the following timbers is suitable for making sports goods ?

- a) mulberry
- b) mahogany
- c) sal
- d) deodar

Ans: a

30. Assertion A : Shishum is used for decorative woodwork.

Reason R : Shishum can be polished to an excellent finish.

Select your answer according to the coding system given below :

- 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

Ans: a

31. The disease of dry rot in timber is caused by

- a) lack of ventilation
- b) alternate wet and dry conditions
- c) complete submergence in water
- d) none of the above

Ans: a

32. Plywood has the advantage of

- a) greater tensile strength in longer direction
- b) greater tensile strength in shorter direction
- c) same tensile strength in all directions
- d) none of the above

Ans: c

33. In which of the following directions, the strength of timber is maximum ?

- a) parallel to grains
- b) 45° to grains
- c) perpendicular to grains

d) same in all directions

Ans: a

34. The moisture content in a well seasoned timber is

a) 4% to 6%

b) 10% to 12%

c) 15% to 20%

d) 100%

Ans: b

35. The trunk of tree left after cutting all the branches is known as

a) log

b) batten

c) plank

d) baulk

Ans: a

36. The age of a tree can be known by examining

a) cambium layer

b) annular rings

c) medullary rays

d) heart wood

Ans: b

37. Plywood is made by bonding together thin layers of wood in such a way that the angle between grains of any layer to grains of adjacent layers is

a) 0°

b) 30°

c) 45°

d) 90°

Ans: d

38. The plywood

a) has good strength along the panel only

b) can be spilt in the plane of the panel

c) has greater impact resistance to blows than ordinary wood

d) cannot be bent more easily than ordinary wood of same thickness

Ans: c

39. The practical limit of moisture content achieved in air drying of timber is

- a) 5%
- b) 15%
- c) 25%
- d) 35%

Ans: b

40. First class timber has an average life of

- a) less than one year
- b) 1 to 5 years
- c) 5 to 10 years
- d) more than 10 years

Ans: d

41. A first class brick when immersed in cold water for 24 hours should not absorb water more than

- a) 15%
- b) 20%
- c) 22%
- d) 25%

Ans: b

42. Crushing strength of a first class brick should not be less than

- a) 3.5 N/mm²
- b) 7.0 N/mm²
- c) 10.5 N/mm²
- d) 14.0 N/mm²

Ans: c

43. The main function of alumina in brick earth is

- a) to impart plasticity
- b) to make the brick durable
- c) to prevent shrinkage
- d) to make the brick impermeable

Ans: a

44. The percentage of alumina in a good brick earth lies between

- a) 5 to 10%

- b) 20 to 30%
- c) 50 to 60%
- d) 70 to 80%

Ans: b

45. Excess of alumina in brick earth makes the brick

- a) impermeable
- b) brittle and weak
- c) to lose cohesion
- d) to crack and warp on drying

Ans: d

46. The nominal size of the modular brick is

- a) 190 mm x 90mmx 80 mm
- b) 190 mm x 190 mm x 90 mm
- c) 200 mm x 100 mm x 100 mm
- d) 200 mm x 200 mm x 100 mm

Ans: c

47. Percentage of silica in a good brick earth lies between

- a) 5 to 10%
- b) 20 to 30%
- c) 50 to 60%
- d) 70 to 80%

Ans: c

48. Excess of silica in brick earth results in

- a) cracking and warping of bricks
- b) loss of cohesion
- c) enhancing the impermeability of bricks
- d) none of the above

Ans: b

49. Which of the following ingredients of the brick earth enables the brick to retain its shape ?

- a) alumina
- b) silica
- c) iron
- d) magnesia

Ans: b

50. Which of the following pairs gives a correct combination of the useful and harmful constituents respectively of a good brick earth ?

- a) lime stone and alumina
- b) silica and alkalies
- c) alumina and iron
- d) alkalies and magnesium

Ans: b

51. The process of mixing clay, water and other ingredients to make brick is known as

- a) kneading
- b) moulding
- c) pugging
- d) drying

Ans: a

52. Advantage of a clamp compared to a kiln for burning bricks is that

- a) it takes less time for burning
- b) it gives more output of first class bricks
- c) it has less initial cost
- d) it is suitable when bricks are required in large numbers

Ans: c

53. The internal size of mould used in brick preparation is

- a) equal to the size of a fully burnt brick
- b) smaller than the size of a fully burnt brick
- c) greater than the size of a fully burnt brick
- d) none of the above

Ans: c

54. Pug mill is used for

- a) preparation of clay
- b) moulding of clay
- c) drying of bricks
- d) burning of bricks

Ans: a

55. Which of the following bricks are used for lining of furnaces ?

- a) overburnt bricks
- b) underburnt bricks
- c) refractory bricks
- d) first class bricks

Ans: c

56. The frog of the brick in a brick masonry is generally kept on

- a) bottom face
- b) top face
- c) shorter side
- d) longer side

Ans: b

57. Number of bricks required for one cubic metre of brick masonry is

- a) 400
- b) 450
- c) 500
- d) 550

Ans: c

58. Glazing is used to make earthenware

- a) hard
- b) soft
- c) porous
- d) impervious

Ans: d

59. Quick lime is

- a) calcium carbonate
- b) calcium oxide
- c) calcium hydroxide
- d) none of the above

Ans: b

60. Quick lime is

- i) slow in setting**
 - ii) rapid in slacking**
 - iii) good in strength** The correct answer is
- a) only (i)

- b) only (ii)
- c) both (i) and (ii)
- d) both (ii) and (iii)

Ans: c

61. Assertion A : Pure lime takes a long time to develop adequate strength.

Reason R : Pure lime has slow hardening characteristics.

Select your answer according to the coding system given below :

- a) Both A and R are true and R is correct explanation of A.
- b) Both A and R are true and R is not a correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

Ans: a

62. Hydraulic lime is obtained by

- a) burning of lime stone
- b) burning of kankar
- c) adding water to quick lime
- d) calcination of pure clay

Ans: b

63. The main constituent which imparts hydraulicity to hydraulic lime is

- a) calcium oxide
- b) silica
- c) clay
- d) water

Ans: c

64. Study the following statements.

- i) Hydraulic lime is suitable for white washing,
- ii) Fat lime is suitable for whitewashing,
- iii) Hydraulic lime is suitable for making mortar,
- iv) Fat lime is suitable for making mortar.

The correct answer is

- a) (i) and (iv)
- b) (ii) and (iii)
- c) (i) and (ii)

d) (iii) and (iv)

Ans: b

65. The main ingredients of Portland cement are

- a) lime and silica
- b) lime and alumina
- c) silica and alumina
- d) lime and iron

Ans: a

66. The constituent of cement which is responsible for all the undesirable properties of cement is

- a) dicalcium silicate
- b) tricalcium silicate
- c) tricalcium aluminate
- d) tetra calcium alumino ferrite

Ans: c

67. Le Chatelier's device is used for determining the

- a) setting time of cement
- b) soundness of cement
- c) tensile strength of cement
- d) compressive strength of cement

Ans: b

68. The main constituent of cement which is responsible for initial setting of cement is

- a) dicalcium silicate
- b) tricalcium silicate
- c) tricalcium aluminate
- d) all of the above

Ans: c

69. The initial setting time for ordinary Portland cement as per IS specifications should not be less than

- a) 10 minutes
- b) 30 minutes
- c) 60 minutes
- d) 600 minutes

Ans: b

70. As per IS specifications, the maximum final setting time for ordinary Portland cement should be

- a) 30 minutes
- b) 1 hour
- c) 6 hours
- d) 10 hours

Ans: d

71. For testing compressive strength of cement, the size of cube used is

- a) 50 mm
- b) 70.6 mm
- c) 100 mm
- d) 150 mm

Ans: a

72. The normal consistency of ordinary Portland cement is about

- a) 10%
- b) 20%
- c) 30%
- d) 40%

Ans: c

73. Early attainment of strength in rapid hardening cement is mainly due to

- a) gypsum
- b) finer grinding
- c) tricalcium silicate
- d) tricalcium aluminate

Ans: b

74. After storage, the strength of cement

- a) decreases
- b) increases
- c) remains same
- d) may increase or decrease

Ans: a

75. According to IS specifications, the compressive strength of ordinary portland cement after three days

should not be less than

- a) 7 MPa
- b) 11.5 MPa
- c) 16 MPa
- d) 21 MPa

Ans: c

Building Materials and Construction Objective Type

Questions ::

76. Addition of pozzolana to ordinary Portland cement increases

- a) bleeding
- b) shrinkage
- c) permeability
- d) heat of hydration

Ans: b

77. Gypsum consists of

- a) H₂S and CO₂
- b) CaSO₄ and H₂O
- c) Lime and H₂O
- d) CO₂ and calcium

Ans: b

78. For testing compressive and tensile strength of cement, the cement mortar is made by mixing cement and standard sand in the proportions of

- a) 1:2
- b) 1:3
- c) 1:4
- d) 1:6

Ans: b

79. The slump recommended for mass concrete is about

- a) 25 mm to 50 mm
- b) 50 mm to 100 mm
- c) 100 mm to 125 mm
- d) 125 mm to 150 mm

Ans: a

80. With increase in moisture content, the bulking of sand

- a) increases

- b) decreases
- c) first increases to a certain maximum value and then decreases
- d) first decreases to a certain minimum value and then increases

Ans: c

81. Which of the following cements is suitable for use in massive concrete structures such as large dams ?

- a) ordinary Portland cement
- b) low heat cement
- c) rapid hardening cement
- d) sulphate resisting cement

Ans: b

82. Proper amount of entrained air in concrete results in

- i) better workability
 - ii) better resistance to freezing and thawing
 - iii) lesser workability
 - iv) less resistance to freezing and thawing
- The correct answer is
- a) (i) and (ii)
 - b) (i) and (iv)
 - c) (ii) and (iii)
 - d) (iii) and (iv)

Ans: a

83. The most common admixture which is used to accelerate the initial set of concrete is

- a) gypsum
- b) calcium chloride
- c) calcium carbonate
- d) none of the above

Ans: b

84. The maximum quantity of calcium chloride used as an accelerator in cement in percentage by weight of cement is

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

Ans: b

85. The basic purpose of a retarder in concrete is

- a) to increase the initial setting time of cement paste in concrete
- b) to decrease the initial setting time of cement paste in concrete
- c) to render the concrete more water tight
- d) to improve the workability of concrete mix

Ans: a

86. Which of the following cements contains maximum percentage of dicalcium silicate?

- a) ordinary Portland cement
- b) low heat cement
- c) rapid hardening cement
- d) sulphate resisting cement

Ans: b

87. The most commonly used retarder in cement is

- a) gypsum
- b) calcium chloride
- c) calcium carbonate
- d) none of the above

Ans: a

88. Three basic raw materials which are needed in large quantities for production of steel are

- a) iron ore, coal and sulphur
- b) iron ore, carbon and sulphur
- c) iron ore, coal and lime stone
- d) iron ore, carbon and lime stone

Ans: c

89. Compared to mild steel, cast iron has

- i) high compressive strength
- ii) high tensile strength
- iii) low compressive strength
- iv) low tensile strength

The correct answer is

- a) (i) and (ii)
- b) (ii) and (iii)
- c) (iii) and (iv)
- d) (i) and (iv)

Ans: d

90. Which of the following gradients exerts maximum influence on properties of steel?

- a) iron
- b) carbon
- c) manganese
- d) sulphur

Ans: b

91. Which of the following is the purest form of iron ?

- a) cast iron
- b) wrought iron
- c) mild steel
- d) high carbon steel

Ans: b

92. The ultimate tensile strength of structural mild steel is about

- a) 160N/mm²
- b) 260N/mm²
- c) 420 N/mm²
- d) 520 N/mm²

Ans: c

93. Percentage of carbon content in mild steel is

- a) less than 0.25
- b) between 0.25 and 0.7
- c) between 0.7 and 1.5
- d) greater than 1.5

Ans: a

94. Which of the following stresses is used for identifying the quality of structural steel ?

- a) ultimate stress
- b) yield stress
- c) proof stress
- d) none of the above

Ans: b

95. The ratio of the thickness of web to that of flange of steel rolled structural beams and channels is

- a) less than 1
- b) equal to 1

- c) greater than 1
- d) less than 1 in beams but greater than 1 in channels

Ans: a

96. Paints with white lead base are suitable for painting of

- a) wood work
- b) iron work
- c) both wood work and iron work
- d) none of the above

Ans: a

97. Assertion A : Paints with white lead base are not recommended for painting of iron works.

Reason R : Paints with white lead base do not check rusting of iron.

Select your answer according to the coding system given below :

- 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

Ans: a

98. The amount of water used for one kg of distemper is

- a) 0.2 liter
- b) 0.4 liter
- c) 0.6 liter
- d) 0.8 liter

Ans: c

99. The vehicle used in case of enamel paints is usually

- a) linseed oil
- b) water
- c) varnish
- d) none of the above

Ans: c

100. Assertion A : Normally turpentine oil is recommended as thinner for indoor painting.

Reason R : Turpentine oil is costlier than other thinners.

Select your answer according to the coding system given below :

- 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.

Ans: b

101. In brick masonry the bond produced by laying alternate headers and stretchers in each course is known as

- a) English bond
- b) double flemish bond
- c) zigzag bond
- d) single flemish bond

Ans: b

102. The stretcher bond in brick masonry can be used only when the thickness of wall is

- a) 90 mm
- b) 180 mm
- c) 190 mm
- d) 280 mm

Ans: a

103. The pressure acting on the stones in stone masonry construction should be

- a) along the direction of bedding planes
- b) at 45° to the direction of bedding planes
- c) at 60° to the direction of bedding planes
- d) perpendicular to the direction of bedding planes

Ans: d

104. Which of the following should be used for hearting of thicker walls ?

- a) headers
- b) stretchers
- c) brick bats
- d) queen closer

Ans: a

105. A queen closer is a

- a) brick laid with its length parallel to the face or direction of wall
- b) brick laid with its breadth parallel to the face or direction of wall
- c) brick having the same length and depth as the other bricks but half the breadth

d) brick with half the width at one end and full width at the other

Ans: c

106. Minimum thickness of wall where single flemish bond can be used is

- a) half brick thick
- b) one brick thick
- c) one and a half bricks thick
- d) two bricks thick

Ans: c

107. The most important tool in brick laying for lifting and spreading mortar and for forming joints is

- a) trowel
- b) square
- c) bolster
- d) scutch

Ans: a

108. Expansion Joints in masonry walls are provided in wall lengths usater than

- a) 10 m
- b) 20 m
- c) 30 m
- d) 40 m

Ans: d

109. The type of bond provided in brick masonry for carrying heavy loads is

- a) single flemish bond
- b) double flemish bond
- c) English bond
- d) zigzag bond

Ans: c

110. A mortar joint in masonry which is normal to the face of wall is known as

- a) bed joint
- b) wall joint
- c) cross joint

d) bonded joint

Ans: c

111. The slenderness ratio for masonry walls should not be more than

a) 10

b) 20

c) 30

d) 40

Ans: b

112. The proportions of lime and sand in the mortar normally used in brick construction are

a) 1:2

b) 1:4

c) 1:6

d) 1:8

Ans: a

113. Number of vertical joints in a stretcher course is x times the number of joints in the header course, where x is equal to

a) 1/2

b) 1

c) 2

d) 1/4

Ans: a

114. As compared to stretcher course, the thickness of joints in header course should be

a) less

b) more

c) equal

d) equal or more

Ans: a

115. As compared to English bond, double flemish bond is

a) stronger

b) more compact

c) costly

d) none of the above

Ans: b

116. Single flemish bond consists of

- a) double flemish bond facing and English bond backing in each course
- b) English bond facing and double flemish bond backing in each course
- c) stretcher bond facing and double flemish bond backing in each course
- d) double flemish bond facing and header bond backing in each course

Ans: a

117. The differential settlement in case of foundations on sandy soils should not exceed

- a) 25 mm
- b) 40 mm
- c) 65 mm
- d) 100 mm

Ans: a

118. In case of foundations on black cotton soils, the most suitable method to increase the bearing capacity of soils is to

- a) increase the depth of foundation
- b) drain the soil
- c) compact the soil
- d) replace the poor soil

Ans: d

119. The type of footing which is used to transmit heavy loads through steel columns is

- a) raft foundation
- b) grillage foundation
- c) well foundation
- d) isolated footing

Ans: b

120. The maximum total settlement for isolated foundations on clayey soils should be limited to

- a) 25 mm
- b) 40 mm
- c) 65 mm

d) 100 mm

Ans: c

121. The type of pile which is driven at an inclination to resist inclined forces is known as

- a) friction pile
- b) sheet pile
- c) batter pile
- d) anchor pile

Ans: c

122. The minimum depth of foundation in clayey soils is

- a) 0.5 m
- b) 0.7 m
- c) 0.9 m
- d) 1.2 m

Ans: c

123. The maximum total settlement for raft foundation on clayey soils should be limited to

- a) 25 mm
- b) 25 to 40 mm
- c) 40 to 65 mm
- d) 65 to 100 mm

Ans: d

124. The bearing capacity of a water logged soil can be improved by

- a) compacting the soil
- b) draining the soil
- c) increasing the depth of foundation
- d) grouting

Ans: b

125. The type of flooring suitable for use in churches, theatres, public libraries and other places where noiseless floor covering is desired is

- a) cork flooring
- b) glass flooring
- c) wooden flooring
- d) linoleum flooring

Ans: a

126. The vertical distance between the springing line and highest point of the innercurve of an arch is known as

- a) intrados
- b) rise
- c) spandril
- d) extrados

Ans: b

127. Depth or height of the arch is the

- a) perpendicular distance between intra-dos and extrados
- b) vertical distance between springing line and intrados
- c) perpendicular distance between springing line and extrados
- d) none of the above

Ans: a

128. The triangular space formed between the extrados and the horizontal line drawn through the crown of an arch is known as

- a) haunch
- b) spandril
- c) voussoirs
- d) skewbacks

Ans: b

129. The lintels are preferred to arches because

- a) arches require more headroom to span the openings like doors, windows etc.
- b) arches require strong abutments to withstand arch thrust
- c) arches are difficult in construction
- d) all of the above

Ans: d

130. In the construction of arches, sand box method is used for

- a) centring
- b) actual laying of arch work
- c) striking of centring
- d) none of the above

Ans: c

131. The type of arch generally constructed over a wooden lintel or over a flat arch for the purpose of carrying the load of the wall above is

- a) segmental arch
- b) pointed arch
- c) relieving arch
- d) flat arch

Ans: c

132. The type of joint commonly used at the junction of a principal rafter and tie beam in timber trusses is

- a) mortise and tenon joint
- b) oblique mortise and tenon joint
- c) butt joint
- d) mitred joint

Ans: b

133. The type of roof suitable in plains where rainfall is meagre and temperature is high is

- a) pitched and sloping roof
- b) flat roof
- c) shell roof
- d) none of the above

Ans: b

134. Pitched and sloping roofs are suitable for

- a) coastal regions
- b) plain regions
- c) covering large areas
- d) all of the above

Ans: a

135. The type of roof which slopes in two directions with a break in the slope on each side is known as

- a) gable roof
- b) hip roof
- c) gambrel roof
- d) mansard roof

Ans: c

136. Mansard roof is a roof which slopes in

- a) two directions without break in the slope on each side
- b) two directions with break in the slope on each side
- c) four directions without break in the slope on each side

d) four directions with break in the slope on each side

Ans: d

137. The horizontal timber piece provided at the apex of a roof truss which supports the common rafter is called

- a) ridge board
- b) hip rafter
- c) eaves board
- d) valley rafter

Ans: a

138. The lower edge of the pitched roof, from where the rain water of the roof surface drops down, is known as

- a) hip
- b) gable
- c) ridge
- d) eaves

Ans: d

139. Higher pitch of the roof

- i) results in stronger roof
- ii) results in weaker roof
- iii) requires more covering material
- iv) requires less covering material

The correct answer is

- a) (i) and (iii)
- b) (i) and (iv)
- c) (ii) and (iii)
- d) (ii) and (iv)

Ans: a

140. Couple close roof is suitable for maximum span of

- a) 2.5 m
- b) 3.5 m
- c) 4.5 m
- d) 5.5 m

Ans: c

141. In a colar beam roof

- a) there is no horizontal tie beam
- b) there is a horizontal tie at the feet of rafters only

- c) there is a horizontal tie at almost the middle of rafters only
- d) there are two horizontal ties, one at the feet and other at the middle of the rafters

Ans: c

142. The function of king post in a king post roof truss is

- a) to support the frame work of the roof
- b) to receive the ends of principal rafter
- c) to prevent the walls from spreading outward
- d) to prevent the tie beam from sagging at its centre

Ans: d

143. The function of cleats in a roof truss is

- a) to support the common rafter
- b) to support purlins
- c) to prevent the purlins from tilting
- d) all of the above

Ans: c

144. The term string is used for

- a) the underside of a stair
- b) outer projecting edge of a tread
- c) a sloping member which supports the steps in a stair
- d) a vertical member between two treads

Ans: c

145. The vertical posts placed at the top and bottom ends of a flight supporting the hand rail are known as

- a) balusters
- b) newal posts
- c) balustrades
- d) railings

Ans: b

146. The maximum number of steps in a flight should generally be restricted to

- a) 10
- b) 12
- c) 15
- d) no limit

Ans: b

147. The number of steps in a flight generally should not be less than

- a) 2
- b) 3
- c) 5
- d) no limit

Ans: b

148. Sum of tread and rise must lie between

- a) 300 to 350 mm
- b) 400 to 450 mm
- c) 500 to 550 mm
- d) 600 to 650 mm

Ans: b

149. Minimum width of landing should be

- a) equal to width of stairs
- b) half the width of stairs
- c) twice the width of stairs
- d) one fourth the width of stairs

Ans: a

150. In any good staircase, the maximum and minimum pitch respectively should be

- a) 90° and 0°
- b) 75° and 30°
- c) 60° and 10°
- d) 40° and 25°

Ans: d

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