

GKINDIA

1. In a mortar, the binding material is

- A. cement
- B. sand
- C. surkhi
- D. cinder.

Answer: A

2. Lacquer paints

- A. are generally applied on structural steel
- B. are less durable as compared to enamel paints
- C. consist of resin and nitro-cellulose
- D. all the above.

Answer: D

3. Wrought iron contains carbon upto

- A. 0.25%
- B. 1.0%
- C. 1.5%
- D. 2%.

Answer: A

4. Pick up the polymineralic rock from the following:

- A. Quartz sand
- B. Pure gypsum
- C. Magnesite
- D. Granite

Answer: D

5. Pick up the correct statement from the following:

- A. For thin structures subjected to wetting and drying, the water cement ratio should be 0.45
- B. For mass concrete structures subjected to wetting and drying, the water ratio should be 0.55
- C. For thin structures which remain continuously under water, the water-cement ratio by weight should be 0.55
- D. All the above.

Answer: D

6. Ultimate strength to cement is provided by

- A. Tricalcium silicate
- B. Di-calcium silicate

C. Tri-calcium aluminate

D. Tetra calcium alumino ferrite.

Answer: B

7. Elastomers can extend upto

A. five times their original dimensions

B. seven times their original dimensions

C. ten times their original dimensions

D. three times their original dimensions.

Answer: C

8. Bitumen felt

A. is used as water proofing material

B. is used as damp proofing material

C. is made from bitumen and hessian fibres

D. all the above.

Answer: D

9. In the method of condensation polymerization,

A. low-molecular substances are removed from the high molecular substance

B. the reaction proceeds with an evolution of ammonia

C. the reaction proceeds with an evolution of hydrogen chloride

D. all the above.

Answer: D

10. In the cement the compound quickest to react with water, is

A. Tricalcium aluminate

B. Tetra-calcium alumino-ferrite

C. Tricalcium silicate

D. Dicalcium silicate.

Answer: A

11. The initial setting time of lime-pozzolana, is

A. 30 minutes

B. 60 minutes

C. 90 minutes

D. 120 minutes.

Answer: D

12. The clay to be used for manufacturing bricks for a large project, is dugout and allowed to weather throughout

- A. the monsoon
- B. the winter
- C. the summer
- D. none of these.

Answer: A

13. The rocks which are formed due to cooling of magma at a considerable depth from earth's surface are called

- A. Plutonic rocks
- B. Hypabyssal rocks
- C. Volcanic rocks
- D. Igneous rocks.

Answer: A

14. Quartzite is a

- A. metamorphic rock
- B. argillaceous rock
- C. calcareous rock
- D. silicious rock.

Answer: D

15. Sand stone is

- A. sedimentary rock
- B. metamorphic rock
- C. igneous rock
- D. volcanic rock.

Answer: A

16. If the furnace is provided with insufficient fuel at low temperatures, the type of pig iron produced, is called

- A. Bessemer pig
- B. Grey or foundry pig
- C. White or forge pig
- D. Mottled pig.

Answer: C



17. Stainless steel contains

- A. 18% of chromium and 8% nickel
- B. 8% of chromium and 18% of nickel
- C. 12% of chromium and 36% of nickel
- D. 36% of chromium and 12% of nickel.

Answer: A

18. Pick up the hypabyssal rock from the following:

- A. Granite
- B. Dolerite
- C. Basalt
- D. All the above.

Answer: B

19. Depending on the chemical composition and mechanical properties, iron may be classified as

- A. cast iron
- B. wrought iron
- C. steel
- D. all the above.

Answer: D

20. In case of Raymond pile

- A. lengths vary from 6 m to 12 m
- B. diameter of top of piles varies from 40 cm to 60 cm
- C. diameter of pile at bottom varies from 20 cm to 28 cm
- D. all the above.

Answer: D

21. Queen closer may be placed

- A. in header course
- B. in stretcher course
- C. in header course next to first brick
- D. in stretcher course next to first brick

Answer: C

22. Dado is usually provided in

- A. dining halls
- B. bath rooms

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- C. living rooms
D. verandah

Answer: B

23. The foundation in which a cantilever beam is provided to join two footings, is known as

- A. strip footing
B. strap footing
C. combined footing
D. raft footing

Answer: B

24. The foundations are placed below ground level, to increase

- A. strength
B. workability
C. stability of structure
D. all the above.

Answer: C

25. Stud(s) of a common wooden partition

- A. are vertical wooden members
B. is the upper horizontal wooden member
C. is the lower horizontal wooden member
D. are the intermediate horizontal wooden members.

Answer: A

26. Pick up the correct statement from the following :

- A. inclined borings are made for taking samples under existing structures
B. inclined borings are occasionally used instead of vertical holes.
C. the spacing of inclined borings is kept such that one bore hole is vertically above the bottom of an adjacent bore hole.
D. all the above.

Answer: D

27. Pick up the commonly adopted geophysical method in civil engineering from the following :

- A. the seismic method
- B. electrical resistivity method
- C. gravitational method
- D. both (a) and (b) of the above.

Answer: D

28. To ensure that supporting area of an offset footing of a boundary wall is fully compressive, the C.G. of load must act

- A. at the centre of the base
- B. within the middle third of the base
- C. within the middle fifth of the base
- D. neither (a), (b) nor (c).

Answer: B

29. The 9 cm x 9 cm side of a brick as seen in the wall face, is generally known as

- A. stretcher
- B. face
- C. front
- D. header

Answer: D

30. The taper of precast concrete pile should not be more than

- A. 1 cm per metre length
- B. 2 cm per metre length
- C. 4 cm per metre length
- D. 5 cm per metre length.

Answer: B

31. The under surface of an arch, is called

- A. soffit
- B. intrados
- C. haunch
- D. back

Answer: A

32. The raft slab is projected beyond the outer walls of the structure by

- A. 5 to 10 cm
- B. 15 to 20 cm
- C. 25 to 30 cm
- D. 30 to 45 cm

Answer: D

33. The process of making the back ground rough, before plastering, is

- A. dubbing
- B. hacking
- C. blistering
- D. peeling

Answer: B

34. Black cotton soil is unsuitable for foundations because its

- A. bearing capacity is low
- B. permeability is uncertain
- C. particles are cohesive
- D. property to undergo a volumetric change due to variation of moisture content.

Answer: D

35. The loose pockets in soil mass can be bridged safely by providing a raft foundation provided the soft area is smaller than

- A. the column spacing
- B. one-third the column spacing
- C. half the column spacing
- D. three-fourth the column spacing

Answer: B

36. The portion of a brick cut across the width, is called

- A. closer
- B. half brick
- C. bed
- D. bat.

Answer: D

37. The concrete slump recommended for beams and slabs ; is

- A. 25 to 50 mm
- B. 25 to 75 mm
- C. 30 to 125 mm
- D. 50 to 100 mm

Answer: C

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38. The member which is placed horizontally to support common rafter of a sloping roof, is

- A. purlin
- B. cleat
- C. batten
- D. strut.

Answer: A

39. Pick up the correct statement from the following:

- A. Louvered door is generally provided in bath rooms
- B. Flush door is generally provided in dinning room
- C. Revolving door is generally provided in cinema halls
- D. Sliding door is generally provided in show rooms

Answer: C

40. Grillage foundation

- A. is used to transfer heavy structural loads from steel columns to a soil having low bearing capacity
- B. is light and economical
- C. does not require deep cutting as the required base area with required pressure intensity is obtained at a shallow depth
- D. all the above.

Answer: D

41. The exterior angle between outer faces of a wall, is known as

- A. turn
- B. junction
- C. quion
- D. all the above.

Answer: C

42. In jack arch floor, the rise is kept

- A. $\frac{1}{6}$ th of the span
- B. $\frac{1}{8}$ th of the span
- C. $\frac{1}{10}$ th of the span
- D. $\frac{1}{12}$ th of the span

Answer: D

43. While designing a stair, the product of rise and going is approximately kept equal to

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- A. 350
- B. 420
- C. 450
- D. 500

Answer: B

44. For constructing a terrazo floor. Pick up the incorrect statement from the following :

- A. a base course is prepared as in cement concrete flooring
- B. a 32 mm thick layer of cement concrete (1 : 2 : 4) is laid on the base course and the surface is made smooth by trowelling
- C. glass strips are driven into the layer according to the pattern required
- D. after final grinding is over, oxalic acid mixed with water is spread over and rubbed hard with soft material

Answer: B

45. The amount of heat required to raise the temperature of the unit mass of gas through one degree at constant volume, is called

- A. specific heat at constant volume
- B. specific heat at constant pressure
- C. kilo Joule
- D. none of these

Answer: A