

- Q.26 Explain any two field test of bricks.

Q.27 What do you mean by initial and final setting time of cement?

Q.28 What are the various types of tiles, used in building?

Q.29 What are varnishes and how it is different from paint? write properties and uses of varnishes.

Q.30 What are the various plastic product used in building?

Q.31 What are the classification of walls based on materials of construction?

Q.32 What do you mean by partition wall, define its construction in detail.

Q.33 What do you mean by mortar? What are their types and how we select the mortar for particular use?

Q.34 Define the term

 - Scaffolding
 - Shoring
 - underpinning

Q.35 What do you mean by DPC? What are the materials used and how it is achieved?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Compare and contrast the various kinds of bricks masonry with reference to their suitability, cost and method of construction.

Q.37 What is Cement? How is Cement classified? Explain manufacturing of cement by dry and wet process.

Q.38 Explain in detail, how we insure safety in building construction in terms of

 - Personal Protection equipment
 - Precautions during construction at height

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Roll No.

3rd Sem / Branch : General Engg.

Subject:- Basics of Civil Engineering

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The unit weight of soil is defined as:

 - The weight of the soil per unit volume
 - The weight of the soil per unit area
 - The weight of the soil per unit length
 - The weight of the soil per unit thickness

Q.2 The term "effective stress" refers to:

 - The total stress acting on the soil
 - The stress caused by the weight of the soil
 - The stress caused by the water in the soil
 - The stress caused by the soil particles on each other

Q.3 The term "consideration" refers to:

 - The process of adding water to the soil
 - The process of reducing the density of the soil
 - The process of increasing the density of the soil
 - The process of settling of the soil over time

Q.4 Which of the following is a common type of insulation material?

 - Concrete
 - Wood
 - Fiberglass
 - Steel

Q.5 Which of the following materials is a type of plastic commonly used in building construction?

 - Polyvinyl chloride (PVC)
 - Aluminum
 - Copper
 - Iron

- Q.6 Which of the following materials is a type of clay commonly used for making bricks?
 a) Kaolin b) Bentonite
 c) Montmorillonite d) Illite
- Q.7 What is the purpose of a stud in building construction?
 a) To provide support for a wall
 b) To provide a decorative finish
 c) To support the weight of the roof
 d) To provide insulation
- Q.8 Which of the following is a type of ceiling commonly used in building construction?
 a) Plaster ceiling b) Glass ceiling
 c) Concrete ceiling d) Brick ceiling
- Q.9 What is the purpose of flashing in building construction?
 a) To provide support for a wall
 b) To prevent water from entering the building
 c) To provide a decorative finish
 d) To support the weight of the roof
- Q.10 What is the purpose of a lintel in building construction?
 a) To support the weight of the roof
 b) To provide a decorative finish
 c) To support the weight of a door or window
 d) To provide insulation

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 The ratio of the volume of voids in a soil to the volume of its solids is called _____.

- Q.12 The ratio of the void volume to the total volume of soil is called _____.
- Q.13 In the soil classification system, the abbreviation "CL" stands for _____
- Q.14 A material's ability to resist deformation under stress is called its _____
- Q.15 _____ is a type of cement commonly used for concrete due to its strength and durability.
- Q.16 _____ is a common building material made from clay and baked in a kiln.
- Q.17 The process of preparing a surface by removing dirt, rust, and old paint before applying a new coat of paint is called _____
- Q.18 The process of applying a thin layer of mortar to the surface of a masonry wall is called _____
- Q.19 What is king Closer?
- Q.20 Define Frog.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Define the following
 a) void ratio b) porosity
 c) water content d) degree of saturation
 e) unit weight
- Q.22 What does mean by bearing capacity and what are the factors affecting the bearing capacity of soil?
- Q.23 What is Machine Foundation and what are the general principles and consideration for this?
- Q.24 What are the various type of pile foundation?
- Q.25 What do you mean by Soil Stabilization and how it can be achieved in the field?