

CLASS XII
SEMESTER III
BUILDING CONSTRUCTION & MAINTENANCE

Full Marks: 20

*Answers can be written in **English** or **Bengali** only.*

1. The raft foundation is generally used when the required area of footing is _____ the total area of structure?
- a. more than one fourth
 - b. less than one fourth
 - c. more than one half
 - d. less than one half

Ans: c

2. Maximum bearing capacity of soil is that of
- a. Fine sand
 - b. Sand clay mixture
 - c. Soft rock
 - d. Coarse sand

Ans: c

3. The Golden Quadrilateral connects which four major cities in India?
- a. Delhi, Mumbai, Chennai and Kolkata
 - b. Delhi, Mumbai, Chennai and Guwahati
 - c. Delhi, Surat, Mumbai and Bangalore
 - d. Surat, Mumbai, Bangalore and Kolkata

Ans: a

4. Which one of the four options given below does not belong to Nagpur Plan of 1943?
- a. State Highways
 - b. District roads
 - c. National Highways
 - d. Expressways

Ans: d

5. A good quality stone.
- a. Should be durable
 - b. Should be free from clay
 - c. Must resist action of acids
 - d. all the above

Answer. d. all the above

6. The term frog means
- a. an apparatus to lift the stone
 - b. a depression on a face of brick
 - c. vertical joint in a brickwork
 - d. soaking brick in water

Answer. b. a depression on a face of brick

7. The property by virtue of which lime sets underwater is known as
- a. Slacking
 - b. setting
 - c. hydraulicity
 - d. calcining

Answer: c. hydraulicity

8. The commonly used raw material in the manufacture of cement is
- a. Slate
 - b. sandstone
 - c. limestone
 - d. basalt

Answer. c. limestone.

9. The standard size of normal bricks, is
- a. 180 mmX 80 mm X 80 mm
 - b. 250 mmX 125 mm X 75 mm
 - c. 200 mmX 100 mm X 100 mm
 - d. 210 mmX 110 mm X 110 mm

Answer b.250 mm X 125 mm X 75 mm

10. Bulking of sand is caused due to
- a. surface moisture
 - b. air voids
 - c. viscosity
 - d. clay contents

Answer. a. surface moisture

11. Slump test of Concrete is carried out to determine
- a. strength
 - b. durability
 - c. workability
 - d. water content

Answer. c. workability

12. In a mortar the binding material is
- a. cement
 - b. sand
 - c. surkhi
 - d. cinder.

Answer . a. cement

13. Which of the following is used as reinforcement in RCC work?
- a. stainless steel
 - b. mild steel
 - c. wrought iron
 - d. cast iron

Answer . b. mild steel

14. In Steel percentage of carbon is approximately

- a. 1.5% to 5.6%
- b. 0.05% to 1.75%
- c. 0.25%
- d. More than 6%

Answer b. 0.05% to 1.75%

15. Admixtures are

- a. Ingredients which are added to in cement before or after concrete mix
- b. Ingredients which are added to make aggregates better
- c. Ingredients which added in cement to make it brighter
- d. Ingredients which added in concrete to increase the volume of concrete

Answer. a. Ingredients which are added to in cement before or after concrete mix

16. Which of the following Admixtures is responsible for early setting, and hardening of concrete?

- a. Plasticizers
- b. Retarders
- c. Super plasticizer
- d. Accelerators

Answer. d. Accelerators

17. Strength of cement concrete primarily depend on

- a. Quantity of cement.
- b. Quantity of aggregate
- c. Quality of water
- d. Water-cement ratio

Answer. d. Water-cement ratio

18. Beam which used to support the above wall of openings is called

- a. Roof
- b. Damp proofing course
- c. Floor
- d. Lintels

Ans: d

19. The component of a building below the ground is called

- a. framed structure
- b. hybrid structure
- c. sub-structure
- d. super-structure

Ans: c

20. B.F.S stands for

- a. Brick Flat soil
- b. Brick Flat Soling
- c. Bat Flat Soling
- d. Brick Foot Soling

Ans: b