



# 17308

**21718**

**3 Hours / 100 Marks**

Seat No.

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- Instructions :**
- (1) *All questions are compulsory.*
  - (2) *Answer each next main question on a new page.*
  - (3) *Illustrate your answers with neat sketches wherever necessary.*
  - (4) *Figures to the right indicate full marks.*
  - (5) *Assume suitable data, if necessary.*
  - (6) *Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.*

**Marks**

**1. Attempt any ten :**

**20**

- a) State any two uses of lintel.
- b) Distinguish between load bearing structures and framed structures on any two points.
- c) Define “Foundation”.
- d) State any essential requirements of a good foundation.
- e) State the necessity of scaffolding.
- f) State the importance of frog.
- g) Define “Skirting”.
- h) Enlist two purposes of plastering.
- i) State the necessity of pointing ?
- j) State two purpose of termite proofing.
- k) State two causes of settlement.
- l) State any two advantages of prefabrication.

**2. Attempt any four :**

**16**

- a) Explain in brief roller compacted concrete.
- b) Explain the procedure of Vacuum dewatering concreting for construction of floors.
- c) Explain the importance and necessity of water proofing.
- d) Enlist any eight requirements of good form work.
- e) Explain in brief precautions to be taken while plastering.
- f) Enumerate the defects found in plastering work and suggest the remedies to avoid such defects.

**P.T.O.**

**3. Attempt any four :****16**

- a)
  - i) Enlist any four types of pointing.
  - ii) State any two necessity of plinth protection.
- b) State any four advantages RMC.
- c) State four uses of wire mesh and Geo-synthetics .
- d) Explain in brief precautions to be taken during prestressing of members.
- e) State any four advantages of prefabrication.
- f) Distinguish between pitched roof and flat roof on any four points.

**4. Attempt any four :****16**

- a) Explain with sketch lean-to-roof.
- b) Enlist types of floors and state their suitability.
- c) State any eight requirements of good stair case.
- d) State the precautions to be taken while constructing foundation on black cotton soils.
- e) Explain in brief with neat sketch well foundation.
- f) Enlist four types of doors and draw a sketch of any two.

**5. Attempt any four :****16**

- a) Draw a neat sketch of a dog-legged stair case.
- b) Distinguish between stone masonry and brick masonry on any four points.
- c) Define DPC and state its necessity.
- d) Draw a neat sketch of section of load bearing wall from foundation to parapet. Label its component parts.
- e) State any four building components with their functions in framed structure.
- f) State the precautions to be taken while marking layout on ground.

**6. Attempt any two :****16**

- a) Explain pile foundation and caisson with neat sketches.
  - b)
    - i) State the necessity and component parts of scaffolding.
    - ii) Explain in brief types and function of Arch.
  - c)
    - i) Draw a neat labelled sketch of flush door.
    - ii) Explain the procedure for replacing glass of existing sliding window.
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