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Question Paper Code: 40301

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

Fourth Semester

Civil Engineering

## CE 8401 – CONSTRUCTION TECHNIQUES AND PRACTICES

(Regulations 2017)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A —  $(10 \times 2 = 20 \text{ marks})$ 

- 1. List the types of forces in Structural system.
- 2. How the life cycle of building materials can be considered?
- 3. Why construction joints required?
- 4. List the causes of dampness.
- 5. What is meant by Cofferdam? When it is used in construction?
- 6. List the uses of Sheet piles.
- 7. Highlight the advantages of Prestressed concrete.
- 8. What are shells? Why special forms are used in constructing shells?
- 9. List the methods used for compacting concrete.
- 10. What are the equipments used for tall building construction?

PART B — 
$$(5 \times 3 = 15 \text{ marks})$$

11. (a) Discuss the load bearing structure and framed structure.

Or

(b) Explain about environmental impact of construction material.

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| 12. | (a) | Explain the classification of Stone masonry.  |
|-----|-----|---|
|     |     | $\operatorname{Or}$   |
|     | (b) | What is meant by Scaffolding? Name the different types of scaffolding and describe any two with neat sketches which are most commonly used. |

13. (a) Explain different Tunneling techniques in detail.

Or

- (b) Explain the methods of dewatering the foundation trenches.
- 14. (a) Describe the procedure involved in the erection of braced domes and spaced decks.

Or

- (b) Explain about electing light weight components of Tall Structures.
- 15. (a) Explain the factors governing the selecting of equipments for earth work.

Or

(b) Discuss about motor graders and scrapers.

PART C —  $(1 \times 15 = 15 \text{ marks})$ 16. (a) Arrive the materials and method of construction of natural building.

Or

(b) Explain the different types of Caisson techniques with suitable sketches.