

Reg. No. :

Question Paper Code : 90323

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

Fourth Semester

Civil Engineering

CE 8401 — CONSTRUCTION TECHNIQUES AND PRACTICES

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What do you understand by Framed structure?
2. How to design and build an energy efficient building?
3. Define specification.
4. List the types of stone masonry.
5. Explain the term shoring.
6. What is box jacking?
7. Explain Off shore platforms.
8. What are the forms used in the construction of chimney?
9. List the Equipment for dredging.
10. What are different operations done by motor grader?

PART B — (5 × 13 = 65 marks)

11. (a) Explain about High rise building technologies.

Or

- (b) Explain in detail about building automation.

12. (a) Narrate the process of Setting out of building.

Or

(b) Explain the procedure for fabrication and erection of steel truss.

13. (a) Elaborate different Dewatering techniques in detail.

Or

(b) Explain the construction sequence of a diaphragm wall.

14. (a) Describe the procedure involved in the launching girders.

Or

(b) Discuss on construction of typical belt conveyor installation with sketches.

15. (a) Explain about Pile driving equipment.

Or

(b) With sketch explain a typical batching plant.

PART C — (1 × 15 = 15 marks)

16. (a) Frame a construction technique and materials to build a residential house, which should satisfy Green building concepts.

Or

(b) Discuss on proper selection of equipments used for material handling, while constructing Tall structure.