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Question Paper Code : 91309

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019

Fifth Semester

Civil Engineering

CE 6506 – CONSTRUCTION TECHNIQUES, EQUIPMENT AND PRACTICE

(Regulations 2013)

(PTCE 6506 – Construction Techniques, Equipment and Practice for

B.E. Part-Time – Fourth Semester – Civil Engineering – Regulations 2014)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

(10×2=20 Marks)

1. What is the use of accelerators in concrete ?
2. Mention any four Destructive methods of testing concrete.
3. State the purposes of providing DPC in buildings.
4. What are Slipforms ?
5. What is an under-reamed pile ?
6. What is a shoring ?
7. Distinguish between silos and bunkers.
8. Write the various operations involved in the construction of off shore platforms.
9. How do you calculate the output of scraper ?
10. List any two reasons for dredging.

PART – B

(5×13=65 Marks)

11. a) What are the factors to be considered for mix design ? Explain the step by step procedure for IS method of concrete mix design.

(OR)

- b) What is meant by NDT ? Explain any two NDT methods in detail.

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12. a) Describe the different types of bonds in brick masonry with sketches.

(OR)

b) Explain the different types of joints in buildings with sketches.

13. a) Describe the procedure involved in underwater construction of diaphragm walls and basement.

(OR)

b) What is dewatering? And briefly explain the various dewatering techniques.

14. a) Discuss in detail about the various types of Bridge decks with suitable diagram.

(OR)

b) Explain in detail the process of in-situ pre-stressing of high rise structures.

15. a) How do you select equipment for earth work? Explain the types of earthwork equipments.

(OR)

b) Mention the various types of compaction equipment. Mention their uses.

PART - C

(1×15=15 Marks).

16. a) What is Scaffolding? Mention its various components and types.

(OR)

b) Explain in detail about the Caissons and Cofferdam.
