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**Question Paper Code : X20308**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020  
AND APRIL/MAY 2021

Fifth Semester

Civil Engineering

CE 6506 – CONSTRUCTION TECHNIQUES, EQUIPMENT AND PRACTICE  
(Common to PTCE 6506 – Construction Techniques, Equipment and Practice for  
B.E. (Part-Time) Fourth Semester – Civil Engineering – Regulations 2014 )  
(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

**(10×2=20 Marks)**

1. Define hydration of cement.
2. What is meant by RMC ?
3. What is the purpose of providing Damp proof courses ?
4. Define Slip form.
5. What is meant by micro piling ?
6. Define shoring.
7. What are shells ?
8. What are launching girders ?
9. What are the factors to be considered for selecting the equipment ?
10. List out the various types of vibrators used in compaction process.

PART – B

**(5×13= 65 Marks)**

11. a) What is the objective of curing ? Explain the different methods of curing of concrete.

(OR)

- b) What is meant by Non-Destructive testing of concrete ? What are its relative merits ? Explain any one Non-Destructive testing method in detail.

12. a) With neat sketches explain the different types of stone masonry in detail.

(OR)

b) Describe in detail the construction practices to be followed for acoustics and fire protection.

13. a) Explain in details about the various methods of dewatering process with neat sketch.

(OR)

b) Define piles and explain about various types of pile driving technique.

14. a) Describe in detail about shell roof structures.

(OR)

b) Explain about the support structures required for heavy equipments and conveyors.

15. a) Explain the various equipments for compaction.

(OR)

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

**PART – C**

**(1×15= 15 Marks)**

16. a) Explain the various equipments for pile driving.

(OR)

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

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