

5th Semester/Civil
Subject : Advanced Construction Technology

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 PVC stands for
- a) Polyvinyl chlorine b) Polyvinyl chloride
 - c) Polyvinyl calcium d) Polyvinyl chrome
- Q.2 The uses of carbon fibres
- a) Aircraft parts b) Bicycles frame
 - c) Racing car d) All of above
- Q.3 Steel fibre increases _____ strength of concrete
- a) Tensile b) Flexural
 - c) Compression d) All of above
- Q.4 The end support of bridge superstructure is known as
- a) Wing wall b) Piers
 - c) Abutment d) Bed blocks

- Q.5 Elevators are powered by
- a) Diesel Pump b) Steam pump
c) Electric motors d) None of above
- Q.6 Sheep foot rollers are most suitable for compacting
- a) Black soil b) Gravel
c) Clay d) Cohesive soil

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Plaster board is _____ in weight.
- Q.8 _____ is the process of preventing water from penetrating the building.
- Q.9 Elevators work on _____ Principle. Archimedes.
- Q.10 For consolidation of concrete _____ are used.
Vibrators
- Q.11 Vibrating rollers are suitable for the compaction of which type of materials?
- Q.12 What is full form of JCB?

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 What are the uses of glass fibre? (Any five)

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- Q.14 Write a short note on HDPE.
- Q.15 What is under waster concreting?
- Q.16 Describe types of flyover.
- Q.17 Differentiate between bridges and flyover. (any four)
- Q.18 What are winches? Where these are used?
- Q.19 Write a note on Elevators.
- Q.20 What are excavation equipment?
- Q.21 Differentiate between bulldozer and scrapers. (any four)
- Q.22 Write a note on skyscrapers.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 What are the advantages and disadvantage of GFRP.
- Q.24 Explain in detail various types of bridge design.
- Q.25 What are the advantages of belt conveyors?

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