

- Q.17 Discuss the use of lifts and belt conveyors in the construction of multi-storeyed buildings (CO3)
- Q.18 Explain the prefabricated construction method and its benefits. (CO3)
- Q.19 Describe the working principle of a tower crane in construction. (CO4)
- Q.20 What is the role of dumpers and tractors in construction? (CO4)
- Q.21 Explain the working and applications of trenching equipment in construction. (CO5)
- Q.22 Explain the working of a Tunnel Boring Machine (TBM).

SECTION-D

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

- Q.23 Discuss the five advantages and five uses of steel Fibre Reinforced concrete in advance construction techniques. (CO1)
- Q.24 Explain the role of advanced hoisting and conveying equipment in the construction of multi-storeyed buildings. (CO4)
- Q.25 Describe the types of excavation equipment used in large construction projects. (CO5)

No. of Printed Pages : 4
Roll No.

220756C

5th Sem / 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 Which of the following fibre is widely used for improving the tensile strength of concrete? (CO1)
- Polypropylene Fibre
 - Steel fibre
 - Carbon fibre
 - Glass fibre
- Q.2 The primary material used in the manufacturing of RPVC is: (CO1)
- Polyethylene
 - Polypropylene
 - Polyvinyl Chloride
 - Fibre Reinforced Plastic

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Q.3 Which method is commonly used for underwater concreting? (CO2)

- a) Shotcreting b) Tremie method
- c) Foam concrete
- d) Roller compacted concrete

Q.4 The equipment required for prefabricated construction includes: (CO3)

- a) Tractors b) Tower Cranes
- c) JCB d) Dumpers

Q.5 Crawlers cranes are used for: (CO4)

- a) Material handling
- b) Soil compaction
- c) Tunneling
- d) Hoisting heavy loads

Q.6 The role of a tunnel boring machine is in:

- a) Road construction
- b) Excavation of trenches
- c) Tunnel construction
- d) Foundation piling

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SECTION-B

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

Q.7 The use of glass fibre in concrete enhances its_____ properties. (CO1)

Q.8 HDPE is mainly used in construction for_____. (CO1)

Q.9 Define Ready-Mix Concrete (RMC) (CO2)

Q.10 Geo-synthetics are used to strengthen_____. (CO3)

Q.11 A_____ is essential for conveying materials in high-rise construction. (CO4)

Q.12 Pile hammers are required for_____. (CO5)

SECTION-C

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

Q.13 Discuss the properties and uses of carbon fibres in construction. (CO1)

Q.14 Explain the role of acoustics materials in modern construction. (CO1)

Q.15 Describe any Five advantages of Ready-Mix concrete over conventional Concrete. (CO2)

Q.16 What are the different types of vibrators used for concrete consolidation? (CO2)

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