

30 pm

Sem - V - CBCS - Reg CE (R-19)

2/12/22

(3HOURS)

[Total Marks 80]

PLEASE NOTE:

1. Question no 1 is compulsory.
2. Attempt any three questions out of remaining question.
3. Figures to the right indicate full marks.
4. Illustrate answer with proper sketches.

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| Q1 | Attempt any four of the following | 20 |
| | a) Explain the working principle of lifts | |
| | b) Write a note on Water meter. | |
| | c) What is a Three-Phase Power and Its Features? | |
| | d) Explain Rapid Chloride Penetration Test (RCPT). | |
| | e) What is Polymer modified mortar? Explain its application in repair. | |
| | f) What are the safety measure to be taken on the construction sites? | |
| Q2 | a) Explain in detail HVAC system with its working principle, types and applications | 10 |
| | b) Explain in detail Earthing with its working principle, types and applications. | 10 |
| Q3 | a) Explain with neat sketches: i) Septic Tank ii) Column jacketing | 10 |
| | b) Explain in detail causes of deterioration of concrete. | 10 |
| Q4 | a) Write a note on: i) Moisture barrier systems ii) Manhole | 10 |
| | b) Explain in detail temporary support structures with respect to their types and applications. | 10 |
| Q5 | Attempt any four of the following | 20 |
| | a) Differentiate between Lifts and Elevators. | |
| | b) Explain in detail types of wires. | |
| | c) Explain in detail types of pipes | |
| | d) What is grouting? Write its application in repair. | |
| | e) Write a note on UPV Test | |
| Q6 | a) Explain the procedure to conduct condition survey of a building. | 5 |
| | b) Explain in detail Tendering process for construction projects. | 5 |
| | c) What are the measures to protect reinforcement from corrosion? | 5 |
| | d) Define visual task and explain factors affecting visual task | 5 |

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