

TE | civil | sem-V | CBCGS | R-19 | C-scheme / BS&R | SH-24

22/11/2024

Time: 3 Hours

Total Marks-80

- N.B. (1) Question no. 1 is compulsory
(2) Attempt any THREE questions out of remaining five

QP-10065014

Q.1 Attempt any FOUR

[20]

- Differentiate between lifts and escalators.
- Explain in detail types of pipes.
- Define Visual task and explain factors affecting visual task.
- Explain Drainage system. Draw and explain the systems of plumbing for drainage in residential buildings.
- What is grouting? Write its application in repair.
- Write short notes on Septic tank.

Q.2 a) Explain the different types of wires and wiring systems. What points will you consider while making choice of wires and wiring systems? [10]

b) What is Condition Survey? Explain the stages of conducting Condition Survey of a RCC structure. [10]

Q.3. a) Prepare a list of semi destructive and nondestructive methods. Explain any TWO in detail. [10]

b) Write note on moisture barrier system. [5]

c) What are the safety measures to be taken on the construction sites? [5]

Q.4. a) Explain in detail about the tendering process for construction projects. [5]

b) Explain Column Jacketing with neat sketch. [5]

c) Explain in detail HVAC system with its working principle, types and application. [10]

Q.5. a) Explain the common repair materials used for repair or rehabilitation or strengthening of the concrete structures and also the selection criteria of repair materials. [10]

b) Explain Fire protective systems. [5]

c) What is Ferro concrete? Explain applications of Ferro concrete. [5]

Q. 6. Attempt any FOUR

[20]

a) Enlist and explain protective devices in electrical installation.

b) Discuss the properties of Water Proofing materials and explain any one water proofing method in detail.

c) Write note on Corrosion protection of structures.

d) Explain the temporary support structures.

e) What are the causes of seepage in concrete structures?