

Module-4

- 7 a. Give the importance of the following related of structures.
- i) Preventive maintenance
 - ii) Remedial maintenance
 - iii) Strengthening
 - iv) Structure enlargement
- (08 Marks)
- b. With the neat sketch, explain the process of Jacketing Technique with reinforced concrete applied to columns. (08 Marks)

OR

- 8 a. Explain the external post tensioning technique on prestressed concrete flexural members. (08 Marks)
- b. List the general retrofitting approaches for the seismic affected building and explain any one. (08 Marks)

Module-5

- 9 a. Give the classification of repair materials. (08 Marks)
- b. Explain the method of repair of crack by stitching. (06 Marks)
- c. List the types of polymer concrete composition. (02 Marks)

OR

- 10 a. Explain the process of shotcreting (Dry mixing process) with the neat sketch. (08 Marks)
- b. Mention the role of the following construction materials :
- i) Latex emulsions
 - ii) Epoxy resins
 - iii) SIFCON
 - iv) Aramid Fibres
- (08 Marks)
