

50235



PART - B

(5×16=80 Marks)

11. a) i) Discuss the need for prefabrication in construction industry. (8)
ii) Explain the principles involved in prefabrication and state its limitations. (8)

(OR)

- b) Discuss the important aspects to be taken for consideration while during production, transportation and erection of precast elements. (16)

12. a) Explain in detail about the large panel construction and state its merits and demerits. (16)

(OR)

- b) Discuss the various factors which influence the response of precast structural components. (16)

13. a) Illustrate the design of cross section based on efficiency of the materials. (16)

(OR)

- b) i) Explain the disuniting of structures. (12)

- ii) What are the precautions should be taken during disuniting of structures? (4)

14. a) Describe briefly the ductility of joint and give the recommendations to design a ductile joint in precast structures. (16)

(OR)

- b) i) List out the general recommendations for the design of an expansion joint. (12)

- ii) State the advantages and applications of an expansion joint. (4)

15. a) Discuss the codal provisions to calculate the equivalent design load when it is subjected to earthquake loading. (16)

(OR)

- b) Briefly explain about the different types of progressive collapses which occurs in the multistorey building with neat sketches. (16)

VIII CIVIL