

Code: 13A01806

B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2018

**COST EFFECTIVE HOUSING TECHNIQUES**

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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1 Answer the following: (10 X 02 = 20 Marks)

- (a) Differentiate between house and home.
- (b) Name two institutions for housing at national level.
- (c) Name any two public housing agencies.
- (d) Differentiate between rental housing and cooperative housing.
- (e) What are precast elements in low cost housing?
- (f) What is an economical wall system?
- (g) Write a short note on ferrocement.
- (h) Write the characteristics of mud.
- (i) Write a short note on earthquake.
- (j) Mention the traditional earthquake prone areas.

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 (a) Discuss the strategies of national housing policies.
- (b) What is the role of institutions for housing at National and State levels?

**OR**

- 3 (a) Discuss in detail about the objectives of slum housing.
- (b) Explain all the basic infrastructure considerations.

**UNIT – II**

- 4 (a) Discuss about the sites and services in the context of housing programmes in India.
- (b) Write short notes on apartments and townships.

**OR**

- 5 (a) Explain about the slum redevelopment and relocation.
- (b) Discuss about plotted land development programmes.

**UNIT – III**

- 6 (a) Explain the significance of usage of gypsum in the masonry.
- (b) Discuss about the adoption of total prefabrication in mass housing projects.

**OR**

- 7 (a) Write a short note on 19 cm thick load bearing masonry walls.
- (b) Illustrate the half brick thick load bearing wall.

**UNIT – IV**

- 8 (a) Discuss the significance of various substitutes for scarce building materials.
- (b) Illustrate fire treatment for thatched roof houses.

**OR**

- 9 (a) Distinguish between industrial wastes and agricultural wastes in the context of alternative building materials.
- (b) Write a short note on rural housing programs in India.

**UNIT – V**

- 10 (a) Discuss about the recommendations for future constructions in the context of housing in disaster prone areas of India.
- (b) How do you restore earthquake damaged buildings?

**OR**

- 11 Discuss in detail about the status of R&D in earthquake strengthening measures in India.