

Code: 13A01806

B.Tech IV Year II Semester (R13) Regular & Supplementary Examinations April 2018

COST EFFECTIVE HOUSING TECHNIQUES

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

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

- Define the household and apartment.
- Name any two institutions for housing at state level.
- What is a gated community?
- Name any two non-government organizations in slum housing.
- Differentiate between precast roofing and flooring systems.
- What is total prefabrication of mass housing?
- What is a domestic wall?
- Mention any four substitutes for scarce materials.
- Differentiate between cyclone and flood.
- Write a short note on damages to houses due to earthquake.

PART – B

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

UNIT – I

- Discuss the objectives of National Housing Policies.
 - Discuss the role of local level institutions for housing.

OR

- What are the principles of sustainable housing?
 - Write about the integrated approach on arriving holding capacity and density norms.

UNIT – II

- Discuss in detail about the use of GIS and MIS in slum housing projects?
 - Explain the slum improvement programmes in India.

OR

- Write a short note on open development plots.
 - Write short notes on Cooperative Housing and Rental Housing in India.

UNIT – III

- Discuss about the innovative cost effective construction techniques adopted in India.
 - Illustrate the single brick thick load bearing wall.

OR

- Explain the significance of usage of fly ash in masonry.
 - Write about the adoption of pre-cast RC planks in roofing systems.

UNIT – IV

- Discuss low cost infrastructure services for rural houses.
 - Write about the Mud Housing Technology and Mud Roofs prevailing in rural India.

OR

9 Write short notes on the following:

- Low cost sanitation.
- Ferro cement-gypsum boards.
- Timber substitutions.

UNIT – V

- Discuss about the future safety in the Context of Housing in Disaster Prone Areas of India.
 - How do you repair earth quake damaged buildings?

OR

- Discuss in detail about the requirements of structural safety of thin pre-cost roofing units against seismic forces.