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BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2016

DCE—SIXTH SEMESTER EXAMINATION

LOW-COST HOUSING, RURAL WATER SUPPLY  
AND SANITATION

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

3×10=30

**Instructions** : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Briefly explain the role of housing finance in construction industry.
2. Write a short note on the needs of national housing policy.
3. What are the various types of houses in the rural areas?
4. Explain asphaltic roofing sheets.
5. List different precast roofing and flooring systems.
6. Briefly explain earthquake resistant houses.
7. Write a brief note on solar cookers.

8. State the objectives of housing development entrepreneurship program.
9. Explain the need for protected water supply.
10. Write the factors affecting biogas production.

**PART—B**

10×5=50

**Instructions** : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. (a) Explain the situation prevailing in urban housing.  
(b) Explain the impacts of science and technology on housing need. 5+5=10
12. Explain the various improvements of squatter settlements.
13. Write short notes on the following : 3+3+4=10
  - (a) Fly ash bricks
  - (b) Secondary species of timber
  - (c) Hollow concrete blocks
14. Explain the technique of precast reinforced concrete flooring in reduction of cost construction.
15. Explain (a) flood resistant houses and (b) cyclone resistant houses. 5+5=10
16. Explain low-cost sanitary latrines with sketches.
17. Explain the Nalgonda technique of deflouradation.
18. Explain the functions and the working of Janata Model Biogas Plant.

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