



c09-c-606 A

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BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2015

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. Differentiate how the environmental pollution effects in urban and rural construction activities.
2. What do you understand by habitat concept in emerging housing need?
3. What are the various shelter upgrading technologies?
4. Explain briefly the prevention of environmental degradation.
5. Explain how the construction cost can be reduced.
6. State three measures to be taken for Fire Resistant Houses.
7. Write brief note on how the drainage system provided in rural areas.
8. Explain briefly how the low-cost housing material can be produced.

- * 9. Explain necessity of disinfection of water.
10. List out different types of rural latrines.

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 role of housing finance in construction industry.
- (b) Explain what are the various economical aspects responsible for emerging housing needs. 5+5
12. Explain the various methods in improving squatter settlement.
13. Write notes on inorganic and organic building materials.
14. Explain (a) precast reinforced concrete flooring and roofing system and (b) prefabricates wall units. 5+5
15. Explain the construction of cyclone resistant houses.
16. Write short notes on : 5+5
- (a) The concept of energy conversation, ecological balance
- (b) Low-cost sanitary latrines
- * 17. Explain the various methods of disinfection.
18. Explain the working principle of KVIC model biogas plant with sketch.

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