

3725

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2013

DCE—SIXTH SEMESTER EXAMINATION

LOW-COST HOUSING, RURAL WATER SUPPLY
AND SANITATION

Time : 3 hours]

[Total Marks : 80

PART—A

- 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. State three situations prevailing in urban housing.
2. State the different resources to be considered in emerging housing needs.
3. Write brief notes on squatter settlement.
4. Explain briefly about environmental degradation.
5. Write a brief note on precast concrete roofing.
6. Name the various natural disasters.
7. Name the different kinds of low-cost sanitary latrine.
8. State the factors to be considered in transfer of technology.
9. Define the following :
 - (a) Disinfection
 - (b) Sterilization
10. State the stages of anaerobic digestion of biogas production.

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PART—B

- 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 how the environmental pollution affects the construction industry.
(b) What are the economic and social aspects responsible for emerging housing needs? 5+5=10
- 12.** (a) What are the various improvements brought in use of indigenous building materials?
(b) State any five techniques used in shelter upgradation. 5+5=10
- 13.** Explain the following terms : 5+5=10
(a) Energy conservation
(b) Ecological balance
- 14.** Explain thin load bearing wall technology to reduce the cost of construction. 10
- 15.** What kind of measures required in construction of cyclone resistance houses? 10
- 16.** (a) Explain what you understand by smokeless health.
(b) State the objectives of Housing Development Entrepreneurship Programme (HDEP). 5+5=10
- 17.** Explain the chlorination method of disinfection. 10
- 18.** Explain the functions and working of KVIC model biogas plant. 10

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