



c09-c-606 A

**3725**

**BOARD DIPLOMA EXAMINATION, (C-09)  
MARCH/APRIL—2017  
DCE—SIXTH SEMESTER EXAMINATION**

LOW COST HOUSING, RURAL WATER SUPPLY  
AND SANITATION

*Time : 3 hours ]*

*[ Total Marks : 80*

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**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. What are the situations prevailing in rural housing?
2. What is the impact of science and technology on housing needs?
3. List any six shelter upgrading technologies.
4. What is meant by ecological balance? Give one example. 2+1=3
5. List any six different types of precast roofing and flooring systems.
6. What is housing disaster mitigation?
7. Name any three essential low cost housing services.
8. How do training and skill upgradation help in improvement of house building technology?

- \* 9. State any three waterborne diseases. Name the organism carrying the diseases.
10. Give the composition of biogas.

**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 by personal and government organizations. 5  
 (b) What are the various economic and social aspects responsible for emerging housing needs? 5
12. (a) Explain the various methods in improving squatter settlements. 5  
 (b) What are the advantages of using indigenous building materials? 5
13. (a) Explain about the informal use of materials for achieving economy. 5  
 (b) List any five new and alternative building materials. 5
14. Explain how the construction cost can be reduced by adoption of innovative techniques. 10
15. Explain the basic principles of appropriate housing technologies in respect of the following : 5+5=10  
 (a) Flood resistant houses  
 (b) Earthquake resistant houses
16. Explain the inadequacies of drainage system and potable water in housing services. 5+5=10
17. (a) List the various rural latrines. 5  
 (b) Explain the various methods of disinfection. 5
18. Explain the working of KVIC model biogas plant with sketch. 10

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