

Seat
No.

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मापक- 012

Low Cost Housing (1100)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Attempt **any five** questions.
5. Answers should be written in the same answer book.
6. Illustrate your answer with suitable sketches.

1. a) Ever increasing urbanization & population necessities Low cost housing construction. Comment. 7
b) Discuss factors resulting in development of large scale slum in urban region. Explain the low cost housing as an alternate to growing slum region. 8
c) What is the role of townplanner in development of urban low cost housing. 5
2. a) Define affordable housing. Discuss the factors & guidelines affecting affordability of such housing. 8
b) Discuss the area where cost of construction of building can be reduced so that it qualifies as a low cost house. 7
c) Explain the cost reduction techniques in foundation, to make a house, low cost. 5
3. a) Discuss housing policy needs as laid by National housing policy. 6
b) Explain briefly the housing policy with expected outcome for the following plan. 8
 - i) I & II plan 1951-61
 - ii) VII plan 1985-90.
- c) Discuss the role of central Government in context to housing finance. 6

4. a) Explain in detail the JNNURM policy with regard to city development plan. 10
- b) With a neat plan (net to scale) explain minimum standard dimension of different units of low cost housing building as laid down by planning commission. What are the factors that contribute to such standard plan of an low cost housing. 10
5. a) What is silica fume or condensed silica fume & what are their content ? Explain the advantages & disadvantages of blending silica fume in concrete mix. 10
- b) What is ferrocement construction ? Discuss 2 main factors on which strength of ferrocement structure depend. Explain the scope & application of ferrocement in low cost construction. 10
6. a) Explain Recycled concrete aggregate, what are the different recycled material that are used in construction of different types. 6
- b) What is light weight foam concrete ? Explain in detail various application of light weight concrete & make a cost comparison with traditional concrete for same work. 8
- c) Discuss the problems faced by construction & demolition waste. Discuss the various components that can be reused from such waste, explaining their utilisation in construction of new structure. 6
7. a) What do you understand by prefabricated building or houses & compare such buildings with traditional buildings. 6
- b) Discuss the needs & necessities of low cost technologies in water supply & sanitation. Discuss low cost community sewerage system. 8
- c) What is meant by appropriate technology ? Explain hollow concrete masonry block for walls. 6
8. a) What are different types of Natural disaster ? Explain the prime factor affecting earthquake damage ? Discuss earthquake induced damage due to ground shaking. 8
- b) Explain the concept of earthquake resistant structure. Discuss various categories of earthquake damage & suggest post earthquake action. 8
- c) Explain repair, restoration & strengthening of building. 4
