

B.Arch Part-IV 8th Semester Examination, 2007

Housing-II

(AR-803)

Time : 3 hours

Full Marks : 100

Answer any SIX questions.

Answer should be well illustrated.

Four(4) marks are reserved for neatness.

1. i) Explain the terms :
Housing Need; Housing Demand; Housing Shortage; Housing Value.
ii) Calculate the Housing Need of a settlement after 20 years from the following data :
a) present population – 1,62,000
b) present popn. growth rate – 1.5 percent per annum (compound)
c) Av. household size – 4.5
d) Estimated household size – 4.0
e) Rate of obsolescence of housing stock – 2.5 percent per annum (compound)
(Assume all other data, if at all necessary) [8+8]
2. i) Define HFI and state their basic objectives.
ii) How they differ from any NBFC?
iii) Calculate the EMI for a housing loan of 5.2 lakhs rupees when the rate of interest (cummulative) is 10.5 percent per annum and loan is repayable within 20 years. [8+2+6]
3. i) State the goal and objectives of the 'National Housing & Habitat Policy - 1998'. How the governments want to create an 'Enabling' environment?
ii) What Housing Board like organization should do in this regard? [8+8]
4. i) Expand the terms :
NHB, NCHF, HUDCO, BMTPC
ii) Write brief notes (within 300 words) on any two of the above organizations. [4+6×2]
5. i) Explain the terms :
Natural Disaster; Natural Hazard Prone Areas (NHPA); Vulnerability.
ii) Draw three (3) most suitable configuration of Hostel Building Plans (indicating permissible length : bredth ratio) in type III earth quake prone areas of India. [7+9]



6. i) Differentiate between a Tenant Ownership Housing Society and a Tenant Co-partnership Housing Society.
- ii) Explain the key Advantages of a Housing Society in the context of Europe and India.
- iii) 'Condominium' falls within which type of Housing Society? [8+6+2]
7. Write short notes with neat sketches (any five) : [4×4]
- i) Pre-cast Concrete Panel Wall Units
- ii) R.C. Filler Slabs
- iii) Hyperbolic Paraboloid Shell as footing
- iv) R.C. Brick panel
- v) Hollow Concrete Blocks
- vi) Rat-trap Bond.
8. Briefly answer the following (any eight) : [8×2]
- i) What is the composition of FLG Blocks?
- ii) What is Red Mud?
- iii) What is the compressive strength of Adobes?
- iv) Why 'partial pre-fabrication' is adopted in India?
- v) Define a Basic Module.
- vi) Expand the term F.M.O.C.
- vii) What is 'SFS' Housing?
- viii) What is 'PPP' in Housing?
- ix) Define a 'Census House'.
- x) What is '5 mm Rule'?
- xi) How thatch roofing could be made more fire resistant?
- xii) Can load bearing structures be made with 'Ekra Wall'?
9. i) What is a 'Green Building'? Why they are more sustainable?
- ii) What is the 'LEED' rating? How much weight they attach to different aspect of a building? [8+8]
10. Write a 500 word Essay on any one of the following topic : [16]
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| i) Indira Awaas Yojana | iv) Night Shelter Scheme |
| ii) IHSDP | v) Rural Housing Policy |
| iii) JNNURM | vi) Building Material Reuse |

