

Total No. of Printed Pages:2

SUBJECT CODE NO:- H-534
FACULTY OF SCIENCE AND TECHNOLOGY
T.E.(CIVIL)
Building Planning And Design
(REVISED)

[Time: Three Hours]

[Max.Marks:80]

N.B Please check whether you have got the right question paper.

1. **Q. No.1** and **Q.No.6** are compulsory.
2. Attempt any **Two** questions remaining from section-A.
3. Attempt any **One** questions remaining from section-B.
4. Assume suitable data if necessary.
5. Use drawing sheet for **Q.No.6** of Section-B.
6. Figures to the right indicate full marks.

Section: A

- | | | |
|-----|---|----------|
| Q.1 | Attempt any five questions from the following | 10 |
| | <ol style="list-style-type: none"> 1. What is the Control Line? 2. What is the Semi-Detached Building? 3. What is the Drain? 4. What is the Set-back Line? 5. What is the difference between house and home? 6. What is mean by Sewage and Sullage? 7. Define Mezzanine floor. | |
| Q.2 | <ol style="list-style-type: none"> a) What is a Sun patch diagram? Give the C.B.R.I. recommendations for obtaining Optimum 08 orientations of building. b) Explain the building bye-laws with reference to <ol style="list-style-type: none"> i. Open space requirement ii. Height limitation iii. Plinth area regulation | 07 |
| Q.3 | <ol style="list-style-type: none"> a) What are the Principles of Thermal Insulation? Discuss with different Materials. b) What is mean by Structural Audit of Buildings? Write down the Stages in Carrying out Structural Audit. | 08
07 |
| Q.4 | <ol style="list-style-type: none"> a) Enlist the Causes of failure of house drainage system (water seal). Write down Classification of traps used in plumbing system with its function. b) State various Building services. Which services are essential for planning a commercial building consisting of shops, bank and offices? | 08
07 |
| Q.5 | <ol style="list-style-type: none"> a) What are the different types of flooring? Explain Concrete Flooring with Procedure (Tremix Flooring). b) Write down the Concept of earthing. Explain in detail Electrification and its type. | 08
07 |

Section: B

- Q.6 Plan and design a residential building for a family in new Aurangabad using the following data.
(Draw with suitable Scale)
- Plot Size 10 m X 15 m.
 - Requirement: Ent. Varandha, Living room, Kitchen cum dinning, Store room, Bed room, Master Bed Room, Separate W.C. Bath and Stair Case.
 - Front, Back & Side margin as per NBC -2005.
 - Working Drawing plan 08
 - Elevation 03
 - Locate Position of Column in plan 03
 - Section through Stair. 06
 - Area Statement (Block plan calculation) 05
- Q.7
- List out the requirement with minimum standards specified by building Bye-law of Health 08 care building and Draw Line plan Layout.
 - How do you achieve roominess, functional planning and flexibility in a Building? Explain 07 with Example.
- Q.8
- How are the perspective projections classified? Mention the practical application of each 08 type of perspective projections.
 - Write a note on landscaping types and their materials. 07