

FACULTY OF ENGINEERING
B.E. 3/4 (Civil) I Semester (Main) Examination, December 2011
BUILDING TECHNOLOGY AND DRAWING

Time: 3 Hours]

[Max. Marks: 75

Note : Answer all questions from Part A. Answer any two questions from Part B and one question from Part C.

PART – A**(25 Marks)**

- | | | | |
|-----|---|--|---|
| 1. | Explain the terms : | | 4 |
| | a) Acoustical Corrections | | |
| | b) Exhaust system | | |
| | c) Setback line | | |
| | d) Water seal. | | |
| 2. | State the importance of Flexibility in planning. | | 2 |
| 3. | What is Relative Humidity ? | | 2 |
| 4. | What are the factors to be considered while designing Corridors ? | | 3 |
| 5. | State the importance of Fire Protection. | | 2 |
| 6. | Explain the three characteristics of sound. | | 3 |
| 7. | Write about the 'Quality of Air' in ventilation. | | 3 |
| 8. | What is 'Absorption Coefficient' of a material ? | | 2 |
| 9. | What is 'Optimum Time of Reverberation' ? | | 2 |
| 10. | Explain Section and Interfere commands. | | 2 |

PART – B**(20 Marks)**

- | | | | |
|-----|---|--|---|
| 11. | a) State the principles underlying Buildings Bye laws. | | 5 |
| | b) What are the principles to be considered in judging building plans ? | | 5 |

12. a) Explain the design considerations for comfort in a building. 4
 b) What are the different systems of ventilation ? Briefly explain. 6
13. a) With the help of a neat sketch explain the sound distribution in an auditorium. 6
 b) Explain the different types of sound absorbent material. 4
14. Write short notes on the following :
 a) Functioning of an Escalator. 3
 b) Fire Resistance in Structural elements. 4
 c) Two pipe system of plumbing. 3

PART – C

(30 Marks)

15. Design a Residence comprising Car Porch, Drawing Room, Dining Room, Kitchen and Store, two Bed Rooms with attached toilets and a staircase by providing appropriate dimensions for each room and locate doors, windows and ventilators at appropriate locations. Draw Plan and Elevation to a scale of 1:100. 30
16. The plan of an 'Office Building' in a school is given in the figure. Develop Plan, Section and Elevation to a scale of 1:50 take suitable data wherever necessary. 30

