B. Tech.

(SEM. III) (ODD SEM.) EXAMINATION, 2010-11
BUILDING MATERIALS & CONSTRUCTION

Time : 3 Hours] [Total Marks : 100

Note : Attempt all the questions.

1. Attempt any four parts :
   (a) Write the requirement of good building stones
   (b) Discuss the types of lime
   (c) Discuss the defects in timber
   (d) Compare the wooden and steel doors
   (e) What are the functions of ventilators?
   (f) Write in brief the characteristics of sound

2. Attempt any four parts :
   (a) What are the ill effects of dampness in buildings?
   (b) Write the differences between bitumen and Tar
   (c) What are the desirable characteristics of reinforcing steel?
   (d) Write the essential requirements of the floors
   (e) Discuss the stud partition
   (f) What are the advantages of cavity walls?

3. Attempt any two parts :
   (a) What do you understand by the Ribbed floor?
       Show the construction details
(b) Explain with sketches various types of timber partition walls.
(c) Compare stone and brick masonry.

4 Attempt any two parts:
(a) What do you understand by
   (i) ventilation.
   (ii) Air conditioning?
   Explain the necessity of each
(b) Explain in detail common acoustic defects and suggest the remedial measures.
(c) Write short notes on
   (i) preservation of stones
   (ii) seasoning of timber

5 Attempt any two parts.
(a) Explain the various principles that should be kept in mind while designing a house and its system
(b) Explain the various methods of damp proofing
(c) Write short notes on
   (i) Fire-fighting
   (ii) Lintels
   (iii) Surkhi
   (iv) Gypsum

9 Explain the various principles that would be kept in mind while designing an drainage system.
(b) Explain the various methods of damp proofing?