



## 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 : 4×5=20
- (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.

[Cont

- (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 drainage system.
- (b) Explain the various methods of damp proofing.
- (c) Write short notes on
  - (i) Fire fighting. *Fire Tightning.*
  - (ii) Lintels. *Lintel k.*
  - (iii) Surkhi. *Surkhi*
  - (iv) Gypsum. *Gypsum*

(a) Explain the various principles that should be kept in mind while designing a house drainage system.

(b) Explain the various methods of damp proofing?