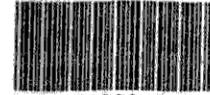


(c) Write short notes on :

- (i) Mechanical lifts and escalators.
- (ii) Fire-fighting.
- (iii) Acoustics.

—x—

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NCE-302

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 100312

Roll No.

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B. Tech. (III Sem.) Odd Semester

SPL. THEORY EXAMINATION, 2014-15

BUILDING MATERIALS & CONSTRUCTION

*Time : 3 Hours]*

*[Total Marks : 100*

**Note:** Attempt All questions.

1. Attempt any four parts: 5×4=20
  - (a) Give the list of important physical properties of building materials. Define any four properties.
  - (b) What is the use of Plastic as a building material? Give its classification.
  - (c) Give the classification and advantages of concrete.

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[Contd...

- (d) How one can use stones in the construction of buildings?
- (e) Write a brief note on classification of Lime.
- (f) What is pointing? How is it carried out? What are its different types?

2. Attempt any four parts : 5×4=20

- (a) Explain the mechanical properties of plastic and their use in construction.
- (b) Describe the manufacturing process of clay bricks.
- (c) Discuss the desirable characteristics of reinforcing steel.
- (d) Describe the use of glass in construction work.
- (e) Explain the different types of roof.
- (f) What do you mean by distempering? Explain.

3. Attempt any two parts : 10×2=20

- (a) Explain with neat sketches the construction of flush doors.

- (b) What are the different types of upper and ground floors? Describe them briefly.
- (c) Describe the procedure which is adopted for providing damp-proof course in an existing wall.

4. Attempt any two parts : 10×2=20

- (a) Describe the construction of brick and stone masonry.
- (b) Describe the various properties of gypsum plaster, building products of gypsum and their uses.
- (c) Write down the general rules for natural ventilation. Explain in brief various types of mechanical ventilation.

5. Attempt any two parts : 10×2=20

- (a) Describe the methods of seasoning of timbers and its preservation.
- (b) Explain the different types of insulating materials and their desirable properties.