

Roll No. ....

Total Pages : 4

**11194/NJ****D-28/2111****BUILDING CONSTRUCTION**

Paper-204

Semester-III

Time Allowed : 3 Hours] [Maximum Marks : 50

**Note :** The candidates are required to attempt **three** questions each from Sections A and B carrying 5 marks each and the entire Section C consisting of 10 short answer type questions carrying 2 marks each.

**SECTION—A**

1. Explain the details of RCC lintel having weather shed by means of a neat sketch. 5

2. Explain by sketches the difference between English bond, Double Flemish bond and Single Flemish bond. 5
3. What are the advantages and disadvantages of the concrete block masonry over brick masonry? 5
4. Explain briefly the different types of foundations you recommended under different situations and soil. 5
5. Write a short note on building bylaws. 5

**SECTION—B**

6. Differentiate between distempering and white wash. 5
7. Classify with the help of sketches, various types of windows based on their methods of operation or opening. 5

8. What do you mean by Damp proof course? List various methods of Damp proof course. Describe the method of damp proofing for the foundation, floors and basement in an area having high water table. 5
9. Write short notes on the following : 5
- (a) Principle of acoustical design of Building.
- (b) Anti-Termite treatment.
10. Explain the fundamental types of pitched roofs with sketches. 5

### SECTION—C

11. Answer the following questions : 10×2=20
- (i) What do you mean by Corbel?
- (ii) Define brick jambs.
- (iii) What is Frog? Why is it provided?

- (iv) Why are the moulds of bricks made longer by about 8 to 12 percent in all directions?
- (v) Which method of damp proofing will you recommend for building on a Valley site?
- (vi) What are the criteria of determining maximum permissible height of a building?
- (vii) What is the advantage of using RCC over other materials in construction of lintels?
- (viii) What type of footing should be provided on black cotton soil?
- (ix) Define nosing.
- (x) Explain slate roofing.