

Con. 7719-13.

GS-6159

(3 Hours)

[Total Marks : 100

N.B. : (1) Question No. 1 is **compulsory**.(2) Attempt any **four** questions out of remaining **six** questions.(3) Assume any **suitable** data wherever **required**.

1. (a) Compare load bearing structure with framed structure. 5
- (b) Define bond in masonry. 5
- (c) What is glass ? Explain its types and uses. 5
- (d) Explain acoustical defects. 5

2. (a) Explain the methods of manufacturing bricks and give comparison between the two processes. 10
- (b) How will you ensure good quality of formwork and good quality of concrete for a high-rise building ? 10

3. (a) Explain various ferrous and non-ferrous products used in construction and explain their merits and demerits. 10
- (b) Define plastering. Explain methods of plastering in detail. 10

4. (a) Draw the neat sketches of Flemish bond of 2½ brick. (plan and elevation). 10
- (b) Enlist different types of roof coverings. Discuss the advantages of the G. I. sheet roof coverings over asbestos sheets. 10

5. (a) What are the causes of various defects in timber ? Describe different prevention methods. 10
- (b) Explain briefly about single joist, double joist and triple joist timber flooring. 10

6. (a) Describe various components of lift. Also state the function of each. 10
- (b) Differentiate between stone masonry and brick masonry. 10

7. Write a short notes on any **four** :- 20
 - (a) Damp proofing
 - (b) False ceiling
 - (c) Scaffolding
 - (d) Plaster of Paris
 - (e) Grade of cement.