

AR-1838

Faculty of Engineering & Technology
B. Arch. Semester—II (CGS) Examination
BUILDING MATERIALS AND CONSTRUCTIONS—II
(10010)
Paper—2 AR 01

Time : Four Hours]

[Maximum Marks : 80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as stated.
- (2) Answer **FOUR** questions.
- (3) Question No. 5 & 6 are compulsory.
- (4) Due credit will be given to neatness and adequate dimensions.
- (5) Assume suitable data wherever necessary.
- (6) Retain the construction lines.
- (7) Illustrate your answers wherever necessary with the help of neat sketches.
- (8) Use pen of Blue/Black ink/refill only for writing the answer book.

1. (a) Design and draw to a suitable scale single shutter two panel t.w. door having width 1.0 m and height 2.10 m.

Draw plan elevation, section and any two fixing details in enlarged scale. 14

- (b) Explain with neat sketches : 6

(i) Double or purlin roof.

(ii) Sliding door.

OR

2. (a) Explain advantages and disadvantages of timber construction. 8

(b) What are the objects of preservation of timber ? State the requirements of good preservative. 6

(c) Explain – Industrial timber and its uses. 6

3. (a) Explain with neat Sketches : 10
- (i) Partly paneled and partly glazed door.
 - (ii) Ledged, framed and braced door.
- (b) Draw a neat sketch of teak wood casement window.
Explain its various component parts, also draw fixing details. State advantages of casement window. 10

OR

4. (a) Explain 'Flush door' and its types with the help of neat sketches. 8
- (b) Explain qualities of good timber. 6
- (c) Explain seasoning of timber ? What are its objects. 6
5. Describe with neat sketches (Any **FOUR**) : - - 20
- (a) Couple close roof.
 - (b) Clerestorey window
 - (c) Bay window
 - (d) Gable window and Dormer window
 - (e) Geometrical stairs
 - (f) Revolving doors
 - (g) Plywood and its advantages.
6. Explain with neat sketches any **FOUR** : 20
- (a) Timber partition
 - (b) Requirements of well designed staircase
 - (c) Wall panelling
 - (d) Pivoted window
 - (e) Skylight
 - (f) Open newel stairs
 - (g) King post roof truss
 - (h) Queen post roof truss.