

AV – 2604

Second Semester B. Arch. (CGS) Examination

BUILDING MATERIALS AND CONSTRUCTION-II

Paper – 02 AR 01

(USC – 10010)

P. Pages : 2

Time : Four Hours]

[Max. Marks : 80

- Note :** (1) All question carry marks as indicated.
(2) Answer **Four** questions.
(3) Question No. **Five** and **Six** is compulsory.
(4) Due credit will be given to neatness and adequate dimensions.
(5) Illustrate your answer wherever necessary with the help of neat sketches.
(6) Use pen of Blue/Black ink/refill only for writing the answer book.

1. (a) Draw to a suitable scale plan, Elevation section and Joinery details of single shutter partly panelled and partly glazed T. W. door having width 0.90 M and height is 2.10 M. 13
- (b) State the purpose of doors and windows in building. Give your justification about their location, size and material used for construction. 7

OR

2. (a) Explain with the help of neat sketches the construction, suitability and uses of flush door. 9
- (b) Distinguish between ledged door and ledged and braced door. 6
- (c) Draw neat sketch of horizontal section of tree trunk and define it's various parts. 5
3. (a) Design a double shutter fully glazed T. W. casement window having width 0.90 M and height 1.20 M. Draw to a suitable scale plan, Elevation and section. 12
- (b) Explain the methods used for preservation of timber. 8

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OR

4. (a) What is meant by the term "Seasoning" of timber ? Why it is carried out explain artificial seasoning of timber ? 8
- (b) Describe with the help of neat sketches the construction and suitability of the following :—
- (i) Clerestorey window
- (ii) Ventilators and its types
- (iii) Bay and Dormer window. 12
5. Describe with neat sketches any **Four** of the following :—
- (1) Types of Framed and panelled doors in T. W.
- (2) King post and Queen post truss roof.
- (3) Requirement of well designed staircase.
- (4) Construction of Lean-to-roof.
- (5) Ply-wood and their uses.
- (6) Gable - window and corner window.
- (7) Physical properties and uses of timber
- (8) Couple - close roof. 20
6. Explain with the help of neat sketches any **Four** of the following :—
- (a) Common and trussed T. W. partition.
- (b) Manufacture and uses of blockboard.
- (c) Design method of dog - legged timber stair - case.
- (d) Wall panelling and its importance.
- (e) Market forms of timber.
- (f) Anti - termit treatment of timber.
- (g) Defect in timber.
- (h) Geometrical and spiral staircase. 20