Total No. of Questions: 4]	

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[5062] - 2001

# F.Y. B.Arch. (Semester - II) BUILDING TECHNOLOGY AND MATERIALS - II (2015 Pattern)

Time: 3 Hours] [Max. Marks: 70

Instructions to the candidates :-

- 1) Answers to the two sections should be written in separate books.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.
- 5) All questions are compulsory.

#### **SECTION - I**

## Q1) Answer any one of two:

[20]

- a) Draw plan and section through a double timber floor to be provided for a room size of  $9.50m \times 5.0m$  (internal measurement) at a scale of 1:20 and any two details at scale of 1:5.
- b) A straight flight T.W. Staircase from ground floor to Mezzanine floor is to be provided with floor height of 2.10m and width of 0.9m. Draw plan and section at a scale of 1:10 and any two details at a scale of 1:2.

# Q2) Answer any three of five:

[15]

- a) Explain with sketches various types of Vaults.
- b) Explain with sketches different types of reinforcement used for any two types of brick masonary.
- c) Explain with sketches purpose of strutting giving two examples.
- d) Explain with sketches any three types of defects in timber.
- e) Explain with sketches any three tools used for timber construction.

*P.T.O.* 

### **SECTION - II**

# Q3) Answer any two of three

[20]

- a) Explain with sketches the openable louvered window operation.
- b) Draw and annote the section through lean to roof for a span of 2.0m.
- c) Explain with sketches any five types of joineries used in Bamboo construction.

## **Q4**) Answer any three of five

[15]

- a) Different types of timber seasoning.
- b) Explain good qualities of bricks.
- c) Bearing joints in timber (any three).
- d) Explain any two types of roofing tiles.
- e) Sketches of any three types of Arches.

