

Bachelor of Design (B.Des.) Examination, 2018

Semester - VII

Specialization in Furniture & Interior

Paper – FI-VII/04

(Material and Product Technology-III)

Time: Three Hours

Full Marks: 40

Questions are of value as indicated in the margin.

Answer **Question No. 1** and **any three** from the rest.

1. Draw a detail sectional drawing through a 10 inch thick load bearing wall of a single storied building from ground level to roof level. Also show necessary parts including lintel, chajja, parapet, coping etc. [Scale $\frac{1}{4}'' = 1'-0''$]. 16

OR

Draw plan and a cross section [upto 1st Floor level] of a dog-legged staircase for residential use to a suitable scale. 8+8=16

2. Name any four Arch forms. Draw freehand sketch of any two out of those Arch forms. 2+(2x3)=8

3. Define stress and strain. Write brief notes on tensile strength / stress and compression / compressive stress with sketches. 2+(2x3)

4. Write brief short notes on **any eight** of the following constructional terms used in building construction: 8x1=8

- | | |
|----------------|---------------|
| a) Dead load | g) GL and PL |
| b) Live load | h) Footing |
| c) FBS | i) RCC Lintel |
| d) PCC and RCC | j) Chhajja |
| e) DPC | k) Coping |
| f) Sill | l) Corbels |

5. Draw free hand sketch of sections through the following Isolated RCC Column Footing: 2x4=8
- a) Rectangular Footing
- b) Slopped Footing

6. Draw a schematic drainage layout plan for a single storied building. 8

OR

Mention name of any eight sanitary and plumbing products used in residential building work.

8x1=8