

## MBT-1601390101021000 Seat No. \_\_\_\_\_

## First Year B. A. (ID) (Sem. II) Examination April / May- 2018

## Materials & Construction - II

Time : 3	Нои	[Total Marks :	<b>50</b>
Instruct	ions	<ul><li>(1) All Questions are compulsory.</li><li>(2) Any ambiguity will be considered as a wroanswer.</li></ul>	ng
1 (a)	Fill	in the blanks:	5
	(1)	Column is theoretically member. (compressive, tensile)	
	(2)	In simply supported beam bending is at the center and at the end. (maximum, minimum, zero)	
	(3)	Hardness of a material on heating. (Reduces, Increases)	
	(4)	Medium carbon steels are (Toughest, Softest)	
	(5)	of a material refers to its stiffness in the elastic range. (Modulus of Elasticity, Tensile strength)	
(b)	Mar	k the following true or false:	5
	(1)	Phenol formaldehyde is an example of non-ferrous metals.	
	(2)	British standards are used for grading marine ply.	
	(3)	Plywood is made of face veneer, coarse veneer and synthetic resins.	
	(4)	Non-metals like Iodine and Graphite have also a Metallic luster.	
	(5)	Flexi ply is widely used in the construction of bridges and high rise buildings.	
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- 2 Describe the following: (any two) 10
  - (1) Which are the wooden products available in market for interior work? Where are these product used?
  - (2) Explain different types of paints and varnishes
  - (3) Types of doors and windows.
- 3 Write the short note of the following: (any two) 10
  - (1) Write name of different types of roof and draw the sketches.
  - (2) Describe the mechanical properties of metal.
  - (3) Describe the terms of stair with help of sketches.
- Design a stair for a Community Hall. The dimension of the space is 4.5m (L), 3.5m (B), 3.6m (H). Scale of the drawing is 1:20. Draw plan and elevation of the stair. Minimum flight width is 1.2m and minimum landing width is 1.2m. Stair should be with handrail and baluster.

## OR

- Design a door for a Community Hall. The dimension of the door is 1500mm × 2100mm. Consider wall thickness 230mm. Scale of the drawing is 1:20. Draw plan and elevation of the door.
- 5 Draw the details of the Q.4 (minimum 4 details) scale 1:5 or 1:2.