

**MODEL QUESTION PAPER (CBCS 2015 SCHEME) (For Reference only)**

Note: The model question paper highlights the overall distribution of marks and provides generic examples of questions set with reference to the modules & syllabus.

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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**VII Semester B.Arch. (CBCS 2015 Scheme) Examination .....2018**

**MATERIALS AND METHODS IN BUILDING CONSTRUCTION - VII**

*Time: 04 Hours*

*Maximum Marks: 100*

**Instructions for Candidates:**

1. Answer FIVE full questions, taking ONE Full Question from each Module.
2. All Questions carry equal marks.
3. Assume any missing data and scale suitably.
4. Provide neat sketches wherever necessary.

Q. No.	Module 1	Marks
1	Enumerate the properties and uses of the following materials: (i) Block Board (ii) MDF (iii) Laminate (iv) Plywood  <b>OR</b>	5 5 5 5
2	Provide design and construction details for a wardrobe of size 1.8m Wide x 2.1m High and 600mm Deep with the following drawings? (i) Plan, Section and Elevation (inside and outside) to a Scale of 1:20 (ii) Any ONE fixing detail from Shutter, Drawer or Shelf to a Scale of 1: 5	15 5
<b>Module 2</b>		
3	Provide the following details for a Kitchen interior of size 4.0M x 4.0M: (i) Plan to Scale 1: 20 (ii) Cross Section to Scale 1: 10  <b>OR</b>	10 10
4	a Design and detail a partition wall of a size 3.0M(height) x 2.40M(width) in Gypsum Board for a large hall to the Scale 1: 20.  b Design and detail a workstation to seat 4 people with requisite storage. Draw Plan, Elevation & Section to Scale 1: 10.	10 10

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<b>Module 3</b>		
5	A false ceiling is required for a room of size 5.0M x 5.0M using modular metal systems. Provide the following: (i) Reflected Ceiling Plan to Scale 1: 20 (ii) Cross section to scale 1: 10 (partial section) (iii) Concealed Light Fixture detail  <b>OR</b>	8 8 4
6	Provide construction details of the following: (i) Pre-stressed Beam to Slab connection. (ii) Pre-stressed Beam to Column connection. (iii) Post-tensioning of various building elements.	7 7 6
<b>Module 4</b>		
7	Enumerate in detail where you would recommend the following Foundations? (i) Raft Foundation (ii) Grillage Foundation  <b>OR</b>	10 10
8	a Explain various types of Cast-in-Situ pile foundations  b How do you construct earthen walls? Enumerate in detail with sketches.	10 10
<b>Module 5</b>		
9	a Explain the process of treatment of bamboo?  b Provide construction details for construction of a Security room of size 3.0M x 3.0M using bamboo for complete superstructure work, using Plan, Section & Elevation to Scale 1: 20.  <b>OR</b>	5 15
10	Explain in detail the following prefabricated building systems used in construction: (i) Types of Slab, Beam & Column. (ii) Methods used in joining prefab elements.	10 10