

P P SAVANI UNIVERSITY

Third Semester of B ARCH. Examination

December 2022

SAAR2272 Building Construction & Technology- III

19.12.2022, Monday

Time: 10:00 a.m. To 12:00 p.m.

Maximum Marks: 40

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

Q - 1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]	CO	BTL
(i)	Full form of MDF		1	1
(ii)	Full form of P.V.C		1	1
(iii)	The vertical portion between each tread on the stair is called: a) Going b) Nosing c) Winder d) Riser		3	2
(iv)	How many types of stairs are there based on the material? a) 4 b) 5 c) 8 d) 6		2	1
(v)	Terrazzo flooring comprises of: a) Chips, powder, concrete b) Chips, concrete c) Chips, cement d) Chips, powder, cement		2	5
(vi) is known as the floor under the flooring.		3	2
(vii)	Which of the following is not an advantage of brick flooring. a). Waterproof b). Cost-effective c). Slip-resistant d). Fireproof		2	4
Q - 2 (a)	Explain Timber Stairs in detail with diagrams.	[05]	3	3
Q - 2 (b)	Explain Ramps in detail with diagrams.	[05]	2	4
	OR			
Q - 2 (a)	Explain Different Types of Scaffolding with diagrams.	[05]	1	4
Q - 2 (b)	Explain Time of Removal of formwork of all the Structural Members.	[05]	1	2
Q - 3 (a)	Explain a Circular Staircase in detail with diagrams.	[05]	3	2
Q - 3 (b)	Explain Types of Scaffolding in detail with sketches.	[05]	2	4

OR

- Q - 3 (a) Explain a Staircase in detail? Also mention the important points for the requirement of good staircase. [05] 3 6
- Q - 3 (b) Classification of the Staircase? Explain any two in detail. [05] 1 2
- Q - 4 Attempt any one. [05]
- (a) Geometrical Staircase 2 1
- (b) How mezzanine floors are constructed? 3 2

CO : Course Outcome Number

BTL : Blooms Taxonomy Level

Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply
4: Analyze	5: Evaluate	6: Create