

SARVAJANIK UNIVERSITY

W-2024 Date: 22-11-24 Time: 13_30 pm - 16_30 pm

Regular and Backlog Exam

B. Interior Design III - SEMESTER- V EXAMINATION

Course Code: BIID 11503

Total Marks: 180

Course Name: Interior Materials Systems and Services III

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Draw Illustrations, Sketches, Labelled Diagrams where ever applicable

Q1.	Answer the following (Compulsory) Attempt All (20 x 2)	
	As Directed -- State True or False / Fill in The Blanks	40 Marks
1	Fire Rating Test of materials should be done under Controlled Laboratory conditions. (True / False)	2 Marks
2	R Value is the Resistance Value of the Material & Structure against Fire. (True / False)	2 Marks
3	Partition Walls should have R Value of minimum Two Hours. (True / False)	2 Marks
4	Structural Elements Should have R Value of minimum Four Hours. (True / False)	2 Marks
5	Full Form of NBC is National Building Code. (True / False)	2 Marks
6	The commonly used thinner in oil paint is water (True / False)	2 Marks
7	The Paints that are most resistant to Fire are Cement Paints (True / False)	2 Marks
8	Varnish is a nearly homogenous solution of Resin and Solvents (True / False)	2 Marks
9	Methyl can be used as a type of Varnish for paints (True /False)	2 Marks
10	Turpentine Oil is not a Binder. (True / False)	2 Marks
11	Applications Of Textiles are as Curtains and Carpets in Interiors (True / False)	2 Marks
12	Textile can never be used as Insulating Material in wall covering(True / False)	2 Marks
13	Fabric and Textile have different characteristics (True / False)	2 Marks
14	Geo- Textile are Used in the Construction Industry (True / False)	2 Marks
15	Textile can be used as False Ceiling (True)	2 Marks
16	Elevators , Escalators and Travelators are all Same thing (True / False)	2 Marks
17	Traction Lift is Based On Counter Weight System (True / False)	2 Marks
18	Pneumatic Lifts are Ideally Suited For Residences (True / False)	2 Marks
19	Travelators are Used in Airports (True / False)	2 Marks
20	Maintenance Of Hydraulic lifts is messy due to Oil as the Agent . (True / False)	2 Marks
Q.2	Explain In Brief With Sketches ANY TWO (25 + 25)	50 Marks
Q2 A	Explain following 1. What is smart textile? What are the key features of it. (5 Marks) 2. What is Plant/Animal based textile? Explain it in detail. (10 Marks) 3. Describe the history of textile (10 Marks)	25 Marks
Q2 B	Explain 1. Explain the difference between Chemical Based Paint and Water Based Paints. (5 Marks)	25 Marks

	2. What is meant as a Plaster . List different textures of plasters and explain advantage of any one from it. (10 Marks) 3. What are the effects Of Toxic Paints on the Indoor Air Quality in Interiors. (10 Marks)	
Q2 C	1. What type of water proofing can be done on Fabrics (5 Marks) 2. In traditional Houses Mud and Clay Plastering are used instead of Paints and lime plaster. What are it's advantages and disadvantages (10 Marks) 3. Discuss the various applications Of Textile Material as Partition Elements. (10 Marks)	25 Marks
Q.3.	Explain any TWO questions (20 + 20 = 40)	40 Marks
i)	a) Define Elevators, Escalators and Travelators? (5 Marks) b)Name two typology buildings in which Escalators can be used (5 Marks) c) Discuss Purpose and the usage of Lifts in various buildings (10 Marks)	20 Marks
ii)	a) List the stages of Assessment for Fire Resisting Material. (5 Marks) b) List the Measures taken to prevent Fire (5Marks) c) Make a Chart to Explain the Classes Of Fire (10 Marks)	20 Marks
iii)	a) List the Different Sizes Of the Escalator (5 Marks) b) List Different Components Of Escalator (5 Marks) c) Draw the Working Principle of the Hydraulic Elevator (10 Marks)	20 Marks
	ATTEMPT ANY TWO OUT OF THREE (25 X 2 = 50)	50 Marks
Q4 I)	Draw a labelled diagram of Fire Escape Route of any Building indicating the direction of the Route and location of all Openings.	25 Marks
a)	Labelling Of Alarm System and Smoke Detectors in the Passages	5 Marks
b)	Indicating Escape Route through Doors, Windows and Fire Stair	10 Marks
c)	Indicating Escape Route Through Arrows from main Doors	10 Marks
Q4 II)	Draw the section of the Wet Riser System in a multistoried building (25 Marks
a)	Labelling the Diagram	5 Marks
b)	Draw the water tanks and pipes	10 Marks
c)	List / Name Of Components Of the Entire System in Wet Riser	10 Marks
Q4 III)		25 Marks
a)	Define Ventilation	5 Marks
b)	Discuss the advantages Of Ventilation for Good Indoor Air Quality as well as Fire Safety	10 Marks
c)	Draw the Diagram to Explain the Flow in Ventilation System in a Residential Building.	10 Marks