

SARVAJANIK UNIVERSITY

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S-2024 Date: 22-04-24 Time: 09:30 AM to 12:30 PM
Backlog Exam

B. Interior Design - SEMESTER- 5 EXAMINATION**Course Code: BIID11503****Total Marks : 180****Course Name: Interior Material, Systems & 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, Labeled Diagrams where ever applicable**

Q.1. Answer the following (All are compulsory) – (2 marks each)**36 Marks**

- 1) _____ is a method of manufacturing fabric directly from fibers.
- 2) Small freight elevators intended to carry food rather than passengers is called as _____.
- 3) Constituents of paints are pigments, binders, extenders, _____ & additives.
- 4) In consumer textiles, _____ and _____ are the most important factors.
- 5) The _____ elevator car is balanced by a counterweight that weighs roughly the same amount as the car when it's loaded 40% to 50%.
- 6) Full Form of NBC is _____.
- 7) Cracking, Flaking & Peeling are various types of _____ in colors.
- 8) Average time between departures of cars from lobby is called as _____.
- 9) Thermal conductivity is the rate at which _____ is transferred.
- 10) Oil based paints demand more time to get dried. (True / False)
- 11) Lesser the Thickness of Bricks the more hours it can withstand deterioration due to Fire. (True / False)
- 12) Elevated work platform or Aerial work platform is commonly known as Scissor Elevators. (True / False)
- 13) Extenders are used to carry pigments and binders in the paint. (True / False)
- 14) Geotextiles are synthetic materials designed to improve the performance. (True / False)
- 15) Recycled Materials can also be given R Value Fire Rating. (True / False)
- 16) Spiral Escalators are stacked criss-cross and go in single direction and reduces structural space requirement. (True / False)
- 17) Coir and Hemp are the cellulosic based fabrics. (True / False)
- 18) Cement is used in pebble dash plaster. (True / False)

Q.2. Answer the following (Answer any 6) – (6 marks each)**36 Marks**

- 1.) List the three stages of Fire Resisting Material and the Measures taken to prevent Fire.
- 2.) Describe wall textures in brief.
- 3.) What is Plant based textile? Give examples of it and explain any one.
- 4.) Explain How building Codes (for Margins, Ventilation, Light) helps in Preventing Fire.
- 5.) What are the key characteristics of acrylic fabric?
- 6.) List down constituents of paints.

- 7.) What is Smart Textile and explain any 4 features of it?
- 8.) What is the difference between a Fire Fighting Service Staircase Core and any other Service Core?
- 9.) List down two main types of colors and explain distemper color in brief.

Q.3. Answer the following in Detail (Answer any 3) – (18 marks each) 54 Marks

- 1.) What are Traction Elevators and explain its types in detail? And draw the neat diagram showing its basic components?
- 2.) What are Hydraulic Elevators and explain its types in detail? And draw the neat diagram showing its basic components?
- 3.) Describe types of oil paint colours in detail with examples. Describe various characteristics of an ideal paint.
- 4.) What is Geo-textile? Explain any five applications of it.
- 5.) Draw the Fire Triangle, Label the diagram and explain the three components in detail.

Draw a labelled Section with dimensions for Staircase for fire escape.

Q.4. Design based questions (Answer any 3) – (18 marks each) 54 Marks

- 1.) Draw the section of the Dry Riser System in a multi-storeyed building and Label the diagram neatly. (9 Marks)
Draw the Intake Points pipes from exterior source. Mention the dimensions where ever applicable. (9 Marks)
- 2.) Design a School Principal's cabin of 6 x 5 mt and make an unfolded elevation of all 4 walls and ceiling drawing with application of paint or texture into the same.
- 3.) Design a main wall in the entrance lobby of the corporate office using plant based fabric which also includes the interactive panel in it. Explain through required sketches and details. [size :4.0 mt X 3.0 mt]
- 4.) Design a private Gym of room size 4Mtr X 4Mtr for a residential bungalow using any suitable type of fabric in 'flooring' according to given situation with its purpose and required explanation for the same.