

- Q.18 Write short note on:  
a) Melamine finishes b) Stucco
- Q.19 Explain the concept of carbon fiber and its applications in the architectural field.
- Q.20 Define thermosetting plastics and provide an example of their use in building materials.
- Q.21 What are the common uses of non ferrous metals in building construction?
- Q.22 Explain the application method for textured paint finishes on interior walls.

#### **SECTION-D**

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)
- Q.23 Discuss the advantages and disadvantages of using plastics in building materials compared to traditional materials like wood or metal?
- Q.24 Describe the characteristics and uses of two different types of floor finishes commonly used in residential buildings, including their laying sizes and popular brand names?
- Q.25 Describe the characteristics and uses of three different types of paints commonly used in interior wall applications?

No. of Printed Pages : 4  
Roll No. ....

220243

(200)

(4)

220243

**4th Sem / Architectural Assistantship**  
**Subject : Building Materials and Construction-III**

Time : 3 Hrs.

M.M. : 60

#### **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Carbon fiber is used in which industry?  
a) Construction      b) Automotive  
c) Space Craft      d) All of the above
- Q.2 Which metal is commonly used in roofing due to its lightweight nature?  
a) Aluminum      b) Copper  
c) Lead      d) Zinc
- Q.3 What is a characteristic of ferrous metals?  
a) They contain iron as the primary element.  
b) They are magnetic  
c) They are heavier than non ferrous metals  
d) All of the above

(1)

220243

- Q.4 What is the purpose of a drier in paints and varnishes?
- To add color
  - To enhance adhesion
  - To speed up drying time
  - To increase viscosity
- Q.5 Which type of plastic is typically used for pipes in plumbing systems?
- |            |                  |
|------------|------------------|
| a) PVC     | b) Polycarbonate |
| c) Acrylic | d) Melamine      |
- Q.6 Which type of flooring material is often preferred for its resistance to water and stains, making it suitable for kitchens and bathrooms?
- Linoleum
  - Cement concrete tiles
  - Glazed terracotta titles
  - Ceramic tiles

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory.  $(6 \times 1 = 6)$

- Q.7 Heavy-duty flooring options are preferred in \_\_\_\_\_ buildings due to their ability to withstand high loads. (Commercial/Industrial)

- Q.8 Varnishes provide a \_\_\_\_\_ layer on wood surfaces. (Protective/Removable)
- Q.9 Marble, Kota stone, slate, and granite are commonly used for \_\_\_\_\_ finishes. (Floor/Wall)
- Q.10 Acrylic emulsions are known for their \_\_\_\_\_ and fast drying properties. (Durability/Insulation)
- Q.11 Heavy-duty flooring options are typically preferred in residential buildings due to their ability to withstand high loads. (True/False)
- Q.12 Shellac is a synthetic plastic commonly used in building materials. (True/False)

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions.  $(8 \times 4 = 32)$

- Q.13 Describe the laying process of ceramic tiles in interior spaces?
- Q.14 Discuss the uses and applications of heavy-duty flooring in industrial buildings.
- Q.15 Discuss the advantages and disadvantages of using acrylic emulsions in paints.
- Q.16 Describe the types of exterior wall finishes commonly used in architectural design?
- Q.17 Write short notes on:  
a) Marble                      b) Granite  
(3)                              220243