

B.Arch. Third Semester (Architectural Engineering) (CGS)
10019 : Applied Materials : 03 AR 01

P. Pages : 2

Time : Three Hours



AV - 2655

Max. Marks : 80

- Notes :
1. All question carry equal marks.
 2. Answer **four** question.
 3. Question No. **five & six** is compulsory.
 4. Due credit will be given to neatness and adequate dimensions.
 5. Assume suitable data wherever necessary.
 6. Illustrate your answer necessary with the help of neat sketches.
 7. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Describe with neat sketches the Natural and Artificial paving materials state their advantages and disadvantages? **10**
b) Mention the object of painting? Describe the important point to be considered before the process of painting is started and state the characteristics of an ideal paint? **10**

OR

2. a) Describe with neat sketches the various Natural and Artificial cladding materials state their advantages and disadvantages? **10**
b) Give the examples of furnishing materials mainly used in interior and discuss them in detail. Also explain "cement paint" its application and precautionary measures to avoid the defects during its application. **10**
3. a) Describe with neat sketches the various types of timber based materials used for interior purpose state their merits and demerits? **12**
b) What do you know about the term – "Curtain wall" why it is to be provided Describe the materials used for its construction? **8**

OR

4. a) Suggest the finishing materials along with their application for interior wall surfaces? Explain the "Synthetic Enamel Paint" state its advantages and disadvantages? **12**
b) Describe with neat sketches the polymer based materials for pipe's and sanitary ware state their merits and demerits? **8**
5. Describe with neat sketches **any two** of the following :- **20**
 - a) Explain –
 - i) Properties of Distemper.
 - ii) Polymer based materials for Glues and Mastics their merits and demerits.
 - iii) Different types of metals and their uses in building.

- b) Describe with neat sketches the various types of Acoustical materials along with their coefficient of absorption and suggest appropriate acoustical materials for an Auditorium and justify your answer?
- c) Describe anti-corrosive paints How they are applied state their characteristics, advantages and disadvantages?
- d) Explain with neat sketches Glass as a building materials along with their properties advantages and disadvantages?

6. Explain with neat sketches **any two** of the following.

20

- a) What is the necessity of "false ceiling" Describe with neat sketches the different types of materials used for false ceiling from ancient period to now a days state their advantages and disadvantages?
- b) Explain :-
 - i) White washing.
 - ii) Polycarbonate and acrylic as a building material along with their properties.
 - iii) Oil paint & its process of Application.
- c) What do you meant by the term "wall papers" why they are provided. Explain the process of application of wall papers state their merits and demerits?
- d) Describe with neat sketches the various types of partition & suggest the appropriate material for the construction of partition of "Architect cabin" Give justification of your answer?
