

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE & PLANNING
B.ARCH/B.ID Summer 2017-18 Examination

Semester: 5
Subject Code: 01102302
Subject Name: Interior Construction Technology & Materials - I

Date: 14/05/2018
Time: 2:00pm to 5:00pm
Total Marks: 50

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever required.
4. Draw suitable sketches wherever required.

- Q:1** Write a brief note on 'Fire Alarms and Detection Systems'. **(10)**
- Q:2** Answer the following as required: (Attempt any 5) **(20)**
- 1) List general principles and factors in acoustical design. Explain any two of it.
 - 2) Fill in the blanks:
 - (i) Poor lightning conditions can cause problems such as improper.....
 - (ii) Biggest advantage of HVAC is that it regulates.....
 - (iii) Velocity of sound in air at 20 degree Celsius is.....m/s.
 - (iv) AFFF stands for.....
 - 3) What is noise? What can be done to avoid noise?
 - 4) Explain glare. How to detect as well as correct glare problem?
 - 5) Write a note on types of fire extinguishers.
 - 6) Define the following:
 - a. Wavelength (in sound)
 - b. Luminance
 - c. Condenser
 - d. Water mist
- Q:3** Explain the following terms with sketch, if necessary: (Attempt any 5) **(10)**
- 1) Acoustic plaster
 - 2) Deluge system
 - 3) Compressor
 - 4) Lumen
 - 5) Reverberation
 - 6) Contrast
- Q:4** Answer the following accordingly: (Attempt any 2) **(10)**
- 1) Discuss important facts about absorbent materials.
 - 2) List down components of HVAC system. Explain any three of them in brief.
 - 3) What are day lightning strategies in a building?