

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE
B.ID Winter 2017-18 Examination

Semester: 5**Subject Code: 01102302****Subject Name: Interior Construction Technology & Materials - I****Date: 04/12/2017****Time: 2.00 pm to 5.00 pm****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 List down components of HVAC system. Explain them in brief. **(10)**

Q.2 Answer the following as required: **(Attempt any 5)** **(20)**

- 1) Discuss in detail how much light is needed for various situations and activities.
- 2) Fill in the blanks:
 - (i) Amount of light falling on a surface is called.....
 - (ii) Collective movement of group of molecules within fluids, through diffusion is.....
 - (iii)lux is the amount illumination needed to do ordinary task with medium details.
 - (iv) FFFF stands for.....
- 3) What is sound? Discuss behavior of sound in different medium.
- 4) Explain glare. How to detect as well as correct glare problem?
- 5) Discuss day lightning strategies in a building.
- 6) Define the following:
 - a. Wavelength(in sound)
 - b. Luminance
 - c. Compressor
 - d. Water mist

Q.3 Explain the following terms with sketch, if necessary: **(Attempt any 5)** **(10)**

- 1) Acoustic tiles
- 2) Contrast
- 3) Condenser
- 4) Illuminance
- 5) Sound Foci
- 6) Dry pipe

Q.4 Answer the following accordingly: **(Attempt any 2)** **(10)**

- 1) List down common acoustical defects. Explain any three in brief.
- 2) Write a note on applied fire protection.
- 3) What is Daylight? Discuss its advantages, attributes and components.