

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE & PLANNING
B.ID. Winter 2018-19 Examination

Semester: 5**Subject Code: 01102302****Subject Name: Interior Construction Technology & Materials – I****Date: 10/12/2018****Time: 02:00 pm to 05:00 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** Explain HVAC system. Enlist & Explain the components of HVAC system. **(10)**
- Q.2** Explain any five out of the following six: **(20)**
- 1) Fill in the blanks:
- a) Velocity of sound in glass at 20 degree Celsius is.....m/s
 - b) lux is the amount illumination needed to do casual seeking
 - c) Biggest advantage of HVAC is that it regulates.....
 - d) SI unit of luminous intensity is.....
- 2) Define / Explain the following:
- a) Sound Foci
 - b) Antifreeze
 - c) Luminance
 - d) Lux
- 3) Define artificial light and explain various types.
- 4) What is noise? What can be done to avoid noise?
- 5) List general principles and factors in acoustical design. Explain each of it.
- 6) List down common acoustical defects. Explain them in brief. **(10)**
- Q.3** Explain the following with sketches if required:
- a) Dead Spot
 - b) Acoustic Plaster
 - c) Reverberation
 - d) Day light factor
 - e) Task Light
- Q.4** Answer the following (any two) **(10)**
- a) Enlist and explain general principles and factors affecting acoustical design.
 - b) Define daylight and Artificial light; along with its advantages, attributes and components.
 - c) Explain briefly : Fire Protection System.