

Seat No: _____

Enrolment No: _____

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE
B.ID Winter 2019-20 Regular Examination

Semester: 5

Subject Code: 01102302

Subject Name: Interior Construction Technology & Materials-I

Date: 02/12/2019

Time: 10:00am to 12:00pm

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 Explain the cooling cycle of an air conditioner. **(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:
 - a) The ultimate source of daylight is the _____
 - b) Biggest advantage of HVAC is that it regulates _____
 - c) The conditioned supply air arrives through the ducts at the supply air _____
 - d) The full form of ODU is _____
- 3) Discuss briefly the common sound defects found in buildings.
- 4) Explain briefly the general fire safety requirements of a building.
- 5) What is day lighting? Explain briefly the advantages and disadvantages of day lighting.
- 6) What kind of an air conditioning system would you recommend for the following areas.
Give reasons for your choice.
 - i. Drawing room of a residence.
 - ii. A hotel suite
 - iii. Restaurant.
 - iv. A small office.

Q3. Explain the following with sketches if required: **(Attempt any five):** **(10)**

- 1) Echoes.
- 2) Reverberation.
- 3) Sound foci.
- 4) Ductable system in air conditioning.
- 5) Task light.
- 6) Condenser.

Q4. Answer the following accordingly (any two): **(10)**

- 1) What is acoustics? Explain briefly the characteristics of audible sound.
- 2) Explain briefly the aspects of fire safety.
- 3) Explain the major causes of fire in a building.