

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE

B.Arch, Summer Supplementary 2016 – 17, Examination

Semester: 3**Date: 07/06/2017****Subject Code: 01101205****Time: 02:00pm to 04:00pm****Subject Name: Architecture And Environment-III****Total Marks: 50****Instructions:**

1. Each section carries 25marks.
2. Q1 and Q2.a are compulsory questions of each section.
3. Q2.b has sub optional questions. Only one question has to be attempted between Q3 and Q4.
4. Figures to the right indicate full marks.
5. Write section-A, section-B on separate answer sheets.

SECTION - A

- Q.1** Explain various design techniques to be considered in warm and humid climate. **(10)**
- Q.2 (a)** Elaborate behavior of light in detail. **(05)**
- Q.2 (b)** Explain Mud as construction material in hot and dry climate. **(05)**

OR

- Q.2 (b)** Explain in detail concept of Wing Wall. **(05)**
- Q.3** Define the following : **(05)**
- a) Solarium
 - b) Water Wall
 - c) Roof Pond
 - d) Green Roof
 - e) Glare
- Q.4** Explain the concept of sun path diagram in detail. **(05)**

SECTION - B

- Q.1** Explain Various Design consideration and recommendation for achieving desired day light. **(10)**
- Q.2 (a)** Explain purpose and function of Mahoney Table in detail **(05)**
- Q.2 (b)** Explain the principle of Wind Tower in both day time and night time. **(05)**

OR

- Q.2 (b)** Explain day lighting and its principles. **(05)**
- Q.3** Fill in the blanks: **(05)**
- a) Bamboo has _____ physical strength.
 - b) Sandstone is easily available at _____ part of India.
 - c) Unit of Lux is measured in _____ .
 - d) Wind rose diagram is used for designing of _____ in architectural building.
 - e) Opaque objects have _____ transmission.
- Q.4** Explain the purpose of Psychometric Chart and its application in Architecture. **(05)**