Seat No:	Enrollment No:
Scat 110	Em onnent 140.

PARUL UNIVERSITY

FACULTY OF ARCHITECTURE

B. Arch, I.D, Winter 2016-17 Examination

Semester: 2 Date: 27/12/2016

Subject Code: 01101155 Time: 10:00 am to 12:00 pm

Subject Name: Architecture And Environment-II Total Marks: 50

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- 1. Each section carries 25marks.
- 2. **Q.1** and **Q.2.a** are compulsory questions of each section.
- 3. **Q2.b has sub optional** questions.
- 4. Only one question has to be attempted between O3 and O4 in each section.
- 5. Figures to the right indicate full marks.
- 6. Write separate sections on separate answer sheets.

SECTION: A

- Q.1 Define ventilation, its types, and explain in detail how to achieve good ventilation. (10)
- Q.2 (a) Explain the effects of landscape on climate and architecture. (05)
- Q.2 (b) Define Solar Altitude Angle and Solar Azimuth Angle. (05)

OR

- Q.2 (b) Write Short Note on Comfort and Comfort Zone. (05)
- Q.3 Define the following: (05)

Conduction, Convection, Radiation, Evaporation, Inversion

Q.4 Write a short note on: Thermal effect on building materials (05)

SECTION: B

- Q.1 What is 'Climate'? Enlist various parameters of climate and explain each of them in brief. (10)
- **Q.2** (a) Describe the Heat Exchange Process between human body and external environment. (05)
- Q.2 (b) What are different types of shading devices, their function and factors to be considered (05) while designing?

OR

- Q.2 (b) What are design techniques for climate responsive design? (05)
- Q.3 Fill in the blanks: (05)
 - a) The general climate of a large area, as of a continent or country is called _____.
 - b) The climate of a small area, as of confined spaces such as caves or houses, communities, is called ______, which may be different from that in the general region.
 - c) The branch of ______ science is the one concerned with the physical, chemical, and biological conditions of the environment and their effect on organisms.
 - d) The branch of _____ is that which is concerned with the relationships between organisms and their environments.
 - e) _____ is the state of the atmosphere in terms of such variables as temperature, cloudiness, precipitation, and radiation.
- Q.4 Explain the effect of humidity on buildings.

(05)