

**PARUL UNIVERSITY**  
**FACULTY OF ARCHITECTURE**  
**B.Arch.Winter 2019-20 Examination**

**Semester: 1****Subject Code: 01101155****Subject Name: ARCHITECTURE & ENVIRONMENT-II****Date: 20 /11/2019****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 whenever required.
4. Draw suitable sketches whenever required.

**Q.1** What is 'Climate'? Enlist various parameters of climate and explain each of them in brief. **(10)**

**Q.2** Attempt any **five** out of the following six. **(20)**

1) Define the following:

- a. Weather.
- b. Micro-climate.
- c. Macro-climate.
- d. Ecology

2) What are the impacts of building on ecological balance?

3) Explain body heat exchange with an appropriate sketch for heat loss and heat gain.

4) Explain dry bulb and wet bulb temperature.

5) What are the common sources of heat gain and heat loss in a building?

6) Enlist and explain the types of ventilation?

**Q.3** Explain the following in brief. (Any five) **(10)**

1. Solar radiation.
2. Relative humidity.
3. Moderate climate.
4. Composite climate.
5. Ecosystem.
6. Cold and dry climate.

**Q.4** Answer any two out the following three. **(10)**

- 1) Explain the effect of climate on men and shelter.
- 2) Enlist and explain various factors which influence human comfort condition
- 3) Mention the differences between 'Hot and dry climate' and 'Warm and Humid climate'.