Sub: Climatology (AR 303) 3rd Semester Examination

Full Marks: 35

Answer any four questions Time: 2 Hrs.

3 marks reserved for neatness

1. (a) What is the difference between Dry Bulb Temperature and W Temperature? How these two temperatures are measured?	et Bulb
(b) What is the difference between Monthly Mean Maximum Temperature, Mean Minimum Temperature, Monthly Extreme Maximum Temperature and Extreme Minimum Temperature?	•
2. (a) What is a Comfort Scale?(b) What is the use of Bioclimatic chart? Explain with a sketch(c) What is Effective Temperature (ET)Nomogram? What is it's utility in under thermal comfort in a region?	2 2 standing 4
3.(a) Explain with sketch the heat exchange process in a building.(b) What are the factors in a building that influence it's heat exchange process.	5 3
4.(a) Explain the role of a heat absorbing glass in thermal control in a building.(b) Explain graphically the roles of site planning parameters, building parameter and mechanical means in controlling indoor climatic conditions.	3 ers 5
5.(a) What are the functions of natural ventilation in a building?(b) What do you mean by Stack Effect? Explain with sketch.(c) What are the factors that influence stack pressure?(d) Explain with sketch the utility of Wind Scoop in controlling indoor situation in hot dry climate.	1 3 1 on 3