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Third Semester B.Arch. Degree Examination, Dec.2014/Jan.2015 Climatology

ime: 3 hrs. Max. Mai Note: Answer any FIVE full questions. Describe microclimate and macroclimate with examples. Explain the factors which affect the urban climate. (10 Marks) What the firme lag"? Describe briefly. 2 (10 Marks) What are the means through which "Thermal insulation" can be effectively achieved in hot and dry climates, through walls and roofs? Explain the materials and techniques. (10 Marks) Which are the climatic zones needing good air movement drough the buildings and why? 3 Explain with the help sketches, wind movement wide and outside habitable rooms, in plans and sections. (12 Marks) How can "INSOLATION" (Incoming Solar Padiation) be controlled? Explain. (12 Marks) Describe the elements which help use alter the micro climate on site. (08 Marks) 5 Describe 'Day light factor'. (05 Marks) Explain how DLF can be utilized to improve the functioning of habitable spaces. (15 Marks) 6 Explain with sketches: (20 Marks) Wind catchers. Shading devices. Bioclimatic char Climatic zones 7 Write short notes on: a. Comfort zone b. Sul path diagrams hermometers. Describe the earth and sun relationship. Explain the cause for seasons. Explain the process of 'body's heat exchange with sketches.

Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.