(20 Marks)

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USN

Third Semester B.Arch. Degree Examination, Dec.2013/Jan.2014 Climatology

Time: 3 hrs.

Time-lag

Weather station

Bio-climatic charts

What is day light factor? Explain its various components.

Explain the design considerations for buildings in hot-dry climate.

b. c.

7

8

Max. Marks: 100

-√kan	Pame: 3 hrs.		Max. Marks. 100	
		Note: Answer any FIVE full questions.		
1		List major and subzones of tropical climate and explain briefly the characteristics		
		climatic zones.	(20 Marks)	
2	a.	What is meant by site climate? Explain various factors influencing site climate.	(12 Marks)	
	b.	Discuss the factors causing deviation of urban climate from macroclimate.	(08 Marks)	
3	a.	What is thermal comfort zone?	(05 Marks)	
•	b.	Explain the effect of climatic elements on thermal comfort.	(15 Marks)	
	0.		•	
4	a.	What are various functions of ventilation in buildings?	(08 Marks)	
-	b.	Explain the effects of different type and location of openings on internal ai	r-flow with	
	0.	sketches.	(12 Marks)	
		Skettines.	·	
_		Name the two angles that determine the position of the sun with respect to a give	en point on	
5	a.		(10 Marks)	
		the surface of the earth. Draw sketches to explain them.	(10 Marks)	
	b.	Explain the use of sun-path diagram.	(10 Marks)	
6		Write short notes on:		
	a.	Shading devices		