2.

3.

warm humid climate.

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(12.5)

(12.5)

	l No. al No	Tota c. of Questions : 09	l No. of Pages:01
		B.Architecture (2012 & Onwards) (Sem CLIMATE AND SUSTAINABILITY-Subject Code: BACH-406 M.Code: 71021	•
Time: 3 Hrs.			Max. Marks: 60
<ol> <li>INSTRUCTION TO CANDIDATES:</li> <li>Question no. 1 is compulsory.</li> <li>All question carry EQUAL marks except question no. 1.</li> <li>Attempt any FIVE questions including compulsory question with minimum one question from each UNIT.</li> </ol>			
1.	$\mathbf{W}_{1}$	rite short notes on the following:	(2×5=10)
	a)	Stack effect	
	b)	U-Value of a body	
	c)	Solar Angle	
	d)	Alternate sources of Energy Thermal units in heat transfer.	
	e)	Thermal units in heat transfer.	
		UNIT-I	

## Explain the role of optimum orientation for efficient natural ventilation of buildings in

Explain wind flow within and around buildings with illustrations.

- UNIT-II

  4. Explain heat equation of heat transfer in a building illustrating all the parameters. (12.5)
- 5. Explain solar passive devices and techniques for climate control within buildings (12.5)
- 6. Explain the role of landscaping and water in climate control. (12.5)

## **UNIT-III**

- 7. Explain the basic guidelines of GRIHA for green buildings. (12.5)
- 8. Explain the basic guidelines in ECBC codes relevant to Architectural Design of buildings. (12.5)
- 9. What are the techniques used in buildings to optimize the use of Energy? (12.5)

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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