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BAR-029

BACHELOR OF ARCHITECTURE

Term-End Examination

June, 2019

**BAR-029 : ARCHITECTURAL SCIENCES AND
SERVICES-I (CLIMATOLOGY)**

Time : 3 Hours

Maximum Marks : 70

*Note : Question No. 1 is compulsory. Attempt any
four questions from the rest. Make neat
sketches.*

1. Write short notes on any *four* of the following :

4×5=20

- (a) Stack Effect
- (b) Evaporative Cooling
- (c) Human heat balance
- (d) Mahoney Tables
- (e) Trombe Wall

2. Define Shading Devices. Explain with the help of sketches, the role and need of shading devices in different Indian climatic regions.

12 $\frac{1}{2}$

(A-52) P. T. O.

3. What is a "Wind Scoop" ? Explain its working with suitable diagrams. 12 $\frac{1}{2}$
4. Explain with suitable diagrams, the importance of "Courtyard" in tropical residential buildings. 12 $\frac{1}{2}$
5. What do you understand by 'Physiological Comfort' ? Discuss in detail the importance of thermal performance of building elements in relation to physiological comfort. 12 $\frac{1}{2}$
6. For a composite climate like Delhi, what are the design considerations in form and planning of building ? 12 $\frac{1}{2}$