

BA - SEMESTER - 3 - EXAMINATION - SUMMER 2018

Subject Code: 1035005	Date: 23-May-2018
· · · · · · · · · · · · · · · · · · ·	

Subject Name: Environmental Science

Time: 02:30 PM TO 04:30 PM Total Marks: 50

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- Q.1 (a) Describe design characteristics of cold climate with diagrams. 05
 - (b Describe design strategies of moderate climate in detail.
- Q.2 (a) Explain following terms with necessary diagrams (Any 5):
 - 1. Insulation 2. Stack Ventilation, 3. Water wall, 4. Cavity wall
 - 5. Wind tunnel 6. Coriolis force 7. Polar winds
 - (b) What are the causes of seasonal changes on earth?

OR

- (b) What is macro climate and micro climate.
- Q.3 (a) Explain Heat production in body and heat loss process. 05
 - (b Explain heat exchange process in the building 05

OR

- Q.3 (a) Why Ventilation is needed in building?
 - (b Differentiate cross ventilation and stack ventilation 05
- Q.4 (a) What is light? Explain behaviors of light when received by any object.
 - (b) What is daylight factor?

OR

- Q.4 (a) Explain following terms with necessary diagrams (Any 5) 05
 - 1. Reflectance
 - 2. Transmittance
 - 3. Refraction
 - 4. Diffusion
 - 5. De-humidification
 - 6. Convection
 - 7. Conduction
 - (b) How size, positioning, porjections and control of opening effect ventilation & 05 day-light.
- Q.5 Describe any climate responsive traditional building for hot & dry climate with diagram.

OR

Q.5 Explain modern & mechanical techniques for designing of climate responsive building for any climate.

05