



**KD-6057**

**B. Arch. I (Sem. I) Examination**  
December - 2012

**ARC-106 : Climatology & Environmental Studies**

Time : 2 Hours]

[Total Marks : 50

**Instructions :**

(1)

नीचे दशांशवैल निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. Arch. I (Sem. I)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="ARC-106 : Climatology &amp; Environmental Studies"/>	<input type="text"/>
Subject Code No. : <input type="text" value="6"/> <input type="text" value="0"/> <input type="text" value="5"/> <input type="text" value="7"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	

- (2) Figures to the right side indicate full marks.  
(3) Descriptive answers to be written point wise only.  
(4) Support your answers with neat sketches wherever needed.

**1) True or False**

**(10)**

1. Soil erosion helps in maintaining soil fertility.
2. Surface water is more in quantity than the groundwater.
3. Small dams are environmentally more sustainable than big dams.
4. Estuaries have the characteristics of Fresh and salt-water both.
5. Mangrove plantation can help preserve the coastal ecosystem..
6. Rich biodiversity ensures stable ecosystem.
7. In acid rain, the pH of rain water falls below normal.
8. The main cause of acid rain is carbon dioxide.
9. Biotic and abiotic components of an ecosystem influence each other and are linked through energy flow and matter cycling.
10. Kerala has hot and dry type of climate.

**2) Write short notes on (any two)**

**(10)**

1. Day lighting concept and its relation with building
2. Define microclimate and discuss in detail the role of vegetation in determining the same.
3. Noise pollution and ways to reduce it at urban level.

**3) Answer the following Questions**

**(20)**

1. What is an ecosystem? Discuss the main components of an ecosystem with an example.
2. Discuss hot and dry climate in detail with design strategies for form and planning in this type of region .

**4) Draw neat Sketches (any two)**

**(10)**

1. Global Wind pattern
  2. Carbon cycle
  3. Heat exchange of buildings.
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