



SD-6057

B. Arch I (Sem - I) Examination
May / June - 2011
Climatology and Environmental Studies
(ARC-106)

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

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

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

1 Fill in the blanks : 10

- (1) _____ resources are inexhaustible resources which can be generated within a given span of time.
- (2) Usually, higher density materials have _____ high/low conductivity.
- (3) Air is a good _____ conductor/insulator of heat.
- (4) Heat flows from _____ temperature to _____ temperature.
- (5) More/Less daylight can be admitted in cold climates.
- (6) _____ means cutting down of forests.
- (7) About 75% of the earth's surface is covered by _____
- (8) Forests prevent soil erosion by binding soil particles in their _____
- (9) Black color is the _____ presence/absence of all wavelengths.
- (10) The speed of light is approximately _____ km/s.

- 2** Write short notes on any two : **10**
- (1) Benefits of green architecture
 - (2) Principles of balanced ecosystem
 - (3) Concept of ecosystem.
- 3** Answer the following questions : (any two) **20**
- (1) Why do architects and planners need to understand the environment and ecosystem ? Discuss pointwise.
 - (2) What is LEED rating ? Explain its relevance in present context and its importance.
 - (3) What are the different types of shading devices ? Explain briefly the strategy to place each of them.
- 4** Draw neat sketches : **10**
- (1) Heat exchange processes of a building
 - (2) Vernacular built form of wurm and humid climate.
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