



RM-6057

B. Arch. I (Sem. I) Examination

May / June – 2010

Climatology & Environmental Studies

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of signs on your answer book.

Name of the Examination :

B. Arch. 1 (Sem. 1)

Name of the Subject :

Climatology & Environmental Studies

Subject Code No. : **6 0 5 7** Section No. (1, 2,.....): **Nil**

Seat No. :

Student's Signature

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

Q.1) Fill in the blanks (10)

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

Q.2) Write short notes on (any two) (10)

- Benefits of Green Architecture
- Principles of sustainable Architecture
- Concept of ecosystem

Q.3) Answer the following Questions (20)

1. Why do architects and planners need to understand the environment and ecosystem? Discuss point wise.
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.

Q.4) Draw neat Sketches (10)

1. Hydrological Cycle
 2. Heat exchange processes of a building
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