

No. of Printed Pages : 03

Roll No.

G4009

B.Arch. EXAMINATION, May 2019

(Eighth Semester)

(B. Scheme) (Main & Re-appear)

(Arch.)

AR424B

ENERGY CONSCIOUS ARCH.-VIII

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Q. No. 1 is compulsory. Attempt total *five* questions out of eight questions selecting at least *one* question from each Unit. Each question carries equal marks.

(3-24/19)M-G4009

P.T.O.

Unit I

1. Suggest the measure to conserve solar energy in the conventional and residential buildings.
2. What do you understand by solar passive architecture ? What are the advantages and diadvantages of solar passive architecture ?

Unit II

3. Define the terms : Heat exchange of buildings, Heat gain and loss calculations, Mean radiant temperature.
4. Explain various means of thermal control inside and outside the building in context to sustainability.

Unit III

5. Distinguish between Passive solar Heating and Passive solar cooling techniques with examples.
6. Explain various Climate responsive traditional architecture in different climate zones in India.

Unit IV

7. How do waste-to-energy facilities affect greenhouse gases ? What must be done to Reduce Human contributions to the Greenhouse Effect.
8. Write notes on the following :
 - (a) ECBC
 - (b) LEED
 - (c) GRIHA.