

Total No. of Questions : 8]

SEAT No. :

P3665

[Total No. of Pages : 2

[4959]-1025

B.E. (Civil)

GREEN BUILDING TECHNOLOGY

(2012 Course) (Semester-II) (Open Elective) (End Sem.)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.*
- 2) *Assume suitable data if necessary.*
- 3) *Figures to the right indicate full marks.*

- Q1)** a) Explain how different green materials are applied for interior and exterior building components. [6]
- b) Write a short note on climate responsive - architecture. [7]
- c) Why EIA is said to be strategic tool for sustainable development? [7]

OR

- Q2)** a) Write a note on Indoor Environmental Quality and the materials affecting the same. [7]
- b) Write a note on building envelop and factors affecting the same. [7]
- c) Discuss in brief the energy management system of a residential township- (flow chart is expected). [6]

- Q3)** a) Write a note on solar energy and its applications; (sketch expected). [8]
- b) Explain with neat sketch, "Composting Methods". [8]

OR

- Q4)** a) Write a note on wind energy and its applications. [8]
- b) How will you achieve maximum daylight and ventilation in multistoried buildings with different orientations of buildings.
(Explain with suitable sketches) [8]

P.T.O.

Q5) a) What is the importance of CDM? What is its impact in relation with developed and developing countries? [9]

b) Write a note on Kyoto protocol. [8]

OR

Q6) a) Explain with flow chart, various stages under CDM. [9]

b) Discuss in detail the salient features of ECBC code. [8]

Q7) a) What is the significance of rating systems in sustainable urban development? [8]

b) Explain in detail, “LEED - India” rating system. [9]

OR

Q8) a) What benefits are given to, “Rated Buildings”. [8]

b) Compare and contrast between “BREEAM and Estimada”. [9]

