

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]

