

Total No. of Questions : 8]

SEAT No. :

P2973

[5154]- 525

[Total No. of Pages : 2

B.E. (Civil)

GREEN BUILDING TECHNOLOGY

(2012 Pattern) (Semester - II) (Elective - IV - Open Elective)

(End Sem.)

Time :2½ Hours]

[Max. Marks :70

Instructions to the candidates:

- 1) Solve 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) How and why indoor environmental quality depends upon the activities and materials in the room? [7]
- b) Describe various thermal indices and mention the importance of them. [6]
- c) What do you mean by climate responsive architecture? Mention the importance of it. [7]

OR

- Q2)** a) Why today Construction Waste is considered as a resource? [7]
- b) Why today low VOC materials are preferred for sustainance? [6]
- c) What is EIA? Elaborate the importance of the same. [7]
- Q3)** a) Explain the working and use of Fresnel lens. [8]
- b) Write a short note on use of wind energy. [8]

OR

- Q4)** a) Write a short note on water conservation. [8]
- b) Write a short note on photovoltaic cell. [8]

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Q5) a) Write a short note on CDM. **[8]**

b) Write a short note on ECBC. **[9]**

OR

Q6) a) Write a short note on KYOTO protocol. **[8]**

b) What is the importance of codal provisions for energy conservation?
Explain with example. **[9]**

Q7) a) Elaborate importance of rating the buildings. **[9]**

b) Elaborate in detail “ LEED-NEW CONSTRUCTION”. **[8]**

OR

Q8) a) Elaborate in detail the following rating system: “BREEAM”. **[9]**

b) Elaborate the benefits offered to different rated buildings. **[8]**

