

Total No. of Questions : 8]

SEAT No. :

P2132

[Total No. of Pages : 2

[5254] -525

B.E. (Civil)

**GREEN BUILDING TECHNOLOGY**

**(End Semester) (2012 Pattern) (Open Elective) (Elective - IV)**

*Time : 2½ Hours]*

*[Max. Marks :70*

*Instructions to the candidates:*

- 1) *Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
- 2) *Assume suitable data if necessary.*
- 3) *Figures to the right indicate full marks.*

- Q1)** a) Why and How ecofriendly materials benefit the users? [6]  
b) What do you mean by climate responsive architecture? Mention the importance of it. [7]  
c) Elaborate importance of “energy management” in todays’ context. [7]

OR

- Q2)** a) Why today low VOC materials are preferred? [7]  
b) Explain wind effect and stack effect. [6]  
c) What is Embodied energy? Elaborate the importance of the same in relation with construction materials. [7]

- Q3)** a) Explain in depth : Biogas generation methods. [8]  
b) Explain various methods of using solar energy. [8]

OR

- Q4)** a) Write a short note on LED. [8]  
b) Write a short note on use of wind energy. [8]

- Q5)** a) Write a short note on KYOTO protocol. [8]  
b) Write a short note on ECBC. [9]

*P.T.O.*

OR

- Q6)** a) Write a short note on CDM. [8]  
b) What is the importance of codal provisions for energy conservation? Explain with example. [9]

- Q7)** a) Write a short note on importance of different rating systems. [9]  
b) Elaborate in detail “LEED”. [8]

OR

- Q8)** a) Elaborate in detail “Green Globes”. [9]  
b) Elaborate the benefits offered to any one rated building. [8]

