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SEAT No. :

P11

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**APR-17/BE/Insem.-12**

**B.E. (Civil)**

**GREEN BUILDING TECHNOLOGY (Semester - II)**

**(2012 Pattern) (Open Elective (ii))**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates :*

- 1) Solve Q1 or Q2, Q3 or Q4, Q5 or Q6.
- 2) Assume Suitable data if necessary.

- Q1)** a) Discuss in brief, factors affecting indoor environmental quality.(IEQ).[5]  
b) Explain the importance of eco friendly materials. [5]

OR

- Q2)** a) Explain with neat sketch, the recycling method of construction waste.[5]  
b) State the physical properties of any two building materials. [5]

- Q3)** a) How sun path of a location affects the sustainable site planning. [5]  
b) Elaborate passive architectural strategies for any two climatic zones. [5]

OR

- Q4)** a) Explain any two thermal comfort indices. [4]  
b) Elaborate how climatic responsive architectural design affects the HVAC system. [6]

- Q5)** a) What is embodied energy, elaborate with giving suitable examples (any two materials) [6]  
b) Prepare the flow chart of life cycle assessment of residential building project. [4]

OR

- Q6)** a) What is EIA? Explain the importance of EIA. [5]  
b) What is energy management in relation with commercial project. [5]

