

Total No. of Questions : 10]

SEAT No. :

P2369

[Total No. of Pages : 2

[5254] - 700-C

B.E. (Information Technology) (Semester - II)
GREEN IT - PRINCIPLES AND PRACTICES (Elective - IV)
(2012 Pattern)

Time :2:30 hours]

[Max. Marks :70

Instructions to the candidates:

- 1) Asnswer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.*
- 2) Neat diagrams must be drawn wherever necessary.*
- 3) Figures to the right indicate full marks.*
- 4) Assume suitable data, if necessary.*

- Q1)** a) How do you infer the term green IT. Describe The Organization for Economic Co- operation and Development framework for Green IT.[7]
b) Explain the life cycle of hardware. How would you identify measures to readuce.Environmental impact at every stage of life cycle. [7]

OR

- Q2)** a) Briefly describe climate change, global warming, greenhouse gases and the greenhouse effect. [7]
b) What are some programming methods used to achieve computational efficiency? [7]

- Q3)** a) What are the energy challenges associated with data centers. [6]
b) Why it is necessary to include software development and maintenance as part of an organization's green IT strategy? [8]

OR

- Q4)** a) Describe the key facilities and IT components within data centers. [6]
b) How would you evaluate sustainability performance of a software system. [8]

- Q5)** a) Classify the evolving nature of green IT strategies of an organizations with respect to time [7]
b) Explain the steps for developing a green IT strategy. [7]

P.T.O.

OR

- Q6)** a) List the business driver for green IT strategies? What inference can you make from these? [7]
- b) How product life cycle assessment is useful in analyzing environmental impacts of all the stages in product development? [7]
- Q7)** a) What are the requirements of sustainable IT development? [7]
- b) Which key technologies are to be considered for developing sustainable IT strategic plan. [7]

OR

- Q8)** a) How according to you Sustainable Information Technology Services (SITS) dimensions are related to green IT? [7]
- b) What are the sustainable IT strategic - planning road map elements? [7]
- Q9)** a) What do you think would happen if more IT manufacturers were included in the Greenpeace Greener Electronics study? [7]
- b) How would perform risk assessment of an information system. [7]

OR

- Q10)** a) What is the difference between strategic thinking and strategic planning? [7]
- b) What is enterprise architecture planning and how it is different from strategic planning. [7]

