1226

Code : 15CS54T

Register Number

GREEN COMPUTING

Time : 3 Hours]   **[Max. Marks : 100**

Instructions : (1) Answer any **six** questions from Part – A. Each carries 5 marks.

(2) Answer any **seven** full questions from Part – B. Each carries 10 marks.

PART – A

1. Define Green IT. List the benefits of Green IT.   5

2. Mention the strategies that help to reduce power consumption by monitor.   5

3. Explain how efficient Algorithm's usage impact on computational efficiency.   5

4. List the different issues in integrating ERP with EMIS system.   5

5. Differentiate between strategic thinking and strategic planning.   5

6. Discuss the terms : Industry Association and standard bodies.   5

7. Explain Green Engineering.   5

8. What are Smart Grids ? Mention the key benefits of Smart Grid.   5

9. Mention five approaches to creating Green IT strategy.   5

PART – B

10. Explain 3 R's of Green IT.   **10**

11. Does software usage affect environment ? Describe.   **10**

12. Discuss the impact of various chemicals used in manufacturing process of electronic
    devices.   **10**

13. (a) Explain the different types of processor power states.   **5**

    (b) What is pre-fetching and caching ? Mention the three guidelines that save
        energy during DVD playback.   **5**

14. Write a note on Greening the Enterprise IT usage and Hardware.   **10**

15. Explain the four major enablers for Green IT.   **10**

16. Explain the different enterprise Architecture planning levels.   **10**

17. (a) Mention the four key components of initiating Green IT management.   **5**

    (b) Write a note on Goal Question Metric (GQM) Paradigm.   **5**

18. Write a note on ROHS and REACH.   **10**

19. Explain Green IT Trends.   **10**

─────────────