

Reg. No. :

**Question Paper Code : 50408**

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Seventh/Eighth Semester

Computer Science and Engineering

CS 8078 – GREEN COMPUTING

(Common to Computer and Communication Engineering/Information Technology)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the 3Rs of Green IT?
2. Point out the specific ways in which a comprehensive Green IT strategy is benefits an organization.
3. Summarize the list of green process categories.
4. Distinguish between coupling and cohesion.
5. What is the role of hypervisor?
6. What are the steps involved in recycling?
7. Analyze the potential for reducing the overall carbon emissions.
8. Differentiate the strengths and weaknesses of GET processes.
9. Define the term compliance audits.
10. Define carbon footprint.

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PART B — (5 × 13 = 65 marks)

11. (a) (i) Examine the Green Enterprise Characteristics. (7)  
(ii) Classify the impact of Business to Environmental Intelligence. (6)  
Or  
(b) (i) Explain Green IT Drivers. (7)  
(ii) Identify the impact of Business to Environmental Intelligence. (6)
12. (a) Generalize your idea on green business process management. (13)  
Or  
(b) Explain in detail how can cloud computing help reduce carbon emission. (13)
13. (a) Discuss about data center and its uses. (13)  
Or  
(b) Illustrate about green grid frame work. (13)
14. (a) Compare views of various cross-section of society on environmental initiatives and role-based view of green it. (13)  
Or  
(b) Explain the concepts of relative speed of change in green enterprise transformation. (13)
15. (a) List out the steps in developing a hospital ERBS. (13)  
Or  
(b) Explain AuPack scenario, strategic approach and SWOT in green IT. (13)

PART C — (1 × 15 = 15 marks)

16. (a) Write in detail about ERBS with a case study Scenario. (15)  
Or  
(b) Explain about Telecom scenario and SWOT for any one telecom services. (15)