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Question Paper Code	12148
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**B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023**

Eighth Semester

**Computer Science and Engineering**

**CS8078 - GREEN COMPUTING**

(Regulations 2017)

Duration: 3 Hours

Max. Marks: 100

**PART - A (10 × 2 = 20 Marks)**

Answer ALL Questions

- |   | <i>Marks,<br/>K-Level, CO</i> |
|---|-------------------------------|
| 1. What is lean approach in green IT strategies?  | <i>2, K1, CO1</i>             |
| 2. What is proactive green strategy?  | <i>2, K1, CO1</i>             |
| 3. What is the role of a green business analysis?   | <i>2, K1, CO2</i>             |
| 4. Draw the evolving green systems architecture.  | <i>2, K1, CO2</i>             |
| 5. Identify the purpose of hypervisor.  | <i>2, K2, CO3</i>             |
| 6. List the metrics created by the green grid.  | <i>2, K1, CO3</i>             |
| 7. Infer the use of Kyoto protocol.   | <i>2, K2, CO4</i>             |
| 8. List the various standards in the ISO 14000 family for environment management systems. | <i>2, K1, CO4</i>             |
| 9. List the steps in developing an ERBS for a hospital.                                   | <i>2, K1, CO5</i>             |
| 10. What are the threats in ZeeTel's SWOT analysis?                                       | <i>2, K1, CO5</i>             |

**PART - B (5 × 13 = 65 Marks)**

Answer ALL Questions

- |   |                    |
|---|--------------------|
| 11. a) Explain the elements of an ERBS Forming the Green Strategies Mix and illustrate the steps in developing an ERBS.               | <i>13, K2, CO1</i> |
| <b>OR</b>   |                    |
| b) What is carbon economy? Explain the various challenges faced by the organizations in the Endeavour to carbon economy.              | <i>13, K2, CO1</i> |
| 12. a) List the IT hardware assets of an organization. Illustrate the influencing factors of the green data centre in detail.         | <i>13, K2, CO2</i> |
| <b>OR</b>   |                    |
| b) Explain the individual, organizational, collaborative green processes, and their core green process reengineering (GPR) in detail. | <i>13, K2, CO2</i> |
| 13. a) Discuss the different types of virtualization in detail.   | <i>13, K2, CO3</i> |

**OR**

- b) Explain the different categories of e-wastes and the recycling strategies in detail. *13,K2,CO3*
14. a) Describe in detail about the Green IT Ethics and Code of Conduct in Socio-cultural aspects of Green IT. *13,K2,CO4*

**OR**

- b) Illustrate the various layers in Skills Framework for Information Age (SFIA) with its potential mapping with green skills. *13,K2,CO4*
15. a) Highlights the business and technology advantages of the GET approach of ZeeTel Also explain the ZeeTel's Green IT strategies briefly. *13,K2,CO5*

**OR**

- b) Explain the AuPack's Green IT Strategies and GET for AuPack packaging in detail. *13,K2,CO5*

**PART - C (1 × 15 = 15 Marks)**

16. a) Develop the SWOT of GoodMead hospital in the aspect of weakness, strengths, opportunities, threats and explain the major steps in the development of an environmentally responsible business strategy in detail. *15,K3,CO6*

**OR**

- b) Develop SWOT of AuPack packaging industry in the aspect of weakness, strengths, opportunities, threats and highlights the major actions during the enactment phase of GET for AuPack. *15,K3,CO6*