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Question Paper Code: 2437330

B.E. / B.Tech. DEGREE EXAMINATIONS, NOV/ DEC 2024
Seventh Semester
Artificial Intelligence and Data Science
U20AI733 – GREEN COMPUTING
(Regulation 2020)

Time: Three Hours Maximum: 100 Marks

Answer ALL questions

PART – A (10 x 2 = 20 Marks)

1. What are the major factors that contribute to carbon emissions in an organization?

2. Define carbon footprint.

3. Define Green Assets.

4. Distinguish between coupling and cohesion.

5. Differentiate Telecommuting and Teleconferencing.

6. When to use material recycling?

7. Define the green requirements of the business.

8. List the components of the ISO 14001 standard and their relevance to green IT.

9. What are the strengths identified in SWOT analysis.

10. Give the advantages of applying Green IT at home.

PART – B (5 x 16 = 80 Marks)

11. (a) Explain with neat Diagram Information technology influences business, society, and environment. (16)

(OR)

(b) Summarize the impact of Green IT policies in three ways length, breadth, and depth. (16)

12. (a) Explain in detail about how Cloud computing helps to reduce carbon emissions. (16)

(OR)

(b) (i) With a neat diagram explain the components of Green Enterprise architecture. (8)

(ii) Explain with an example how Green Business Protocol is modelled. (8)

13. (a) (i) State the effect of virtualization of IT systems. (8)

(ii) Recall and list the Green data center influencing factors. (8)

(OR)

(b) (i)Explain the best ways for building an effective Green PC. (8)

(ii)With a neat diagram explain the components of Green Grid framework. (8)

14. (a) Describe the diagram and short notes on Green Enterprise Transformation. (16)

(OR)

(b) Differentiate the relationship between diagnosing equipment lifecycle's carbon efficiencies and diagnosing end-user computing's carbon efficiencies with an example. (16)

15. (a) Illustrate the concepts of Bluewater's Travel Agency Carbon Scenario and Open Air Airline Carbon Scenario. (16)

(OR)

(b) Develop Case Study in Applying Green IT Strategies and Applications to the Telecom Sector. (16)

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