Question Paper Code : 90395

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

Seventh Semester

Computer Science and Engineering

CS 8078 – GREEN COMPUTING

(Common to: Computer and Communication Engineering/ Information Technology)

(Regulations 2017)

Time : 3 hours　　　　　　　　　　　　　　　　　　Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.　What is Green Vision?

2.　Highlight the difference between proactive and reactive green strategies.

3.　How cloud computing helps in reducing carbon emissions?

4.　Deduce the role of mobility in creating environment friendly business.

5.　State the advantages of using recycled paper.

6.　How energy can be saved in your mobile phone?

7.　Mention the categories of communication channels in Green IT projects.

8.　Specify the objective of Kyoto protocol.

9.　What do you mean by TCCO measure?

10.　State the green transformational elements of an organization.

PART B — (5 × 13 = 65 marks)

11. (a) Discuss briefly about Green IT drivers for environmental responsibility of business.

Or

(b) (i) Explicate the basic green practices that will impact on overall green transformation. (8)

(ii) Specify the green values and the technique to achieve the green values in detail. (5)

12. (a) (i) List the advantages of Green Integrated Supply Chain Management. (7)

(ii) Elaborate the factors need to be considered in achieving Green BPM. (6)

Or

(b) (i) Summarize the features of Green Information System. (7)

(ii) Enumerate the GEA based activities involved in Green Information System. (6)

13. (a) (i) Specify ten green techniques to make your PC greener. (10)

(ii) Mention the advantages of telecommuting for businesses. (3)

Or

(b) Illustrate the e-waste process with the framework given by EPA for modeling the product life cycle with diagram.

14. (a) Explain the concept of Green Enterprise Transformation with diagram.

Or

(b) List and explain the emerging technologies with Green IT impact.

15. (a) Enumerate the activities of ZeeTel in the process of data center changes and next generation networks in GET and equipment life cycle considerations related to Green P-O-D.

Or

(b) With a neat sketch, discuss the steps involved in developing hospital's ERBS.

PART C — (1 × 15 = 15 marks)

16. (a) Identify various networking and communication assets of an organization and suggests data center strategies for carbon reduction.

Or

(b) Create the outline of Green ICT Information portal in Green Enterprise Architecture and identify the elements specific to the portal.

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