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Question Paper Code: 59220

B.E./B.Tech. DEGREE EXAMINATION, MAY 2022

Elective

Computer Science and Engineering

15UCS920- GREEN COMPUTING

(Regulations 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. When was Green Computing Invented? CO1- U
(a) 1990 (b) 1991 (c) 1992 (d) 1993
2. Green BPM deals with the overall management of all_ CO2- U
(a) Internal and External (b) External and Internal
(c) Includes and Excludes (d) None of the above
3. Creating more logical IT resources, with in one physical system is called CO3- R
(a) Load Balancing (b) Hypervisor
(c) Virtualization (d) None of the above
4. Which of the following perspectives takes the strongest stance in support of sustainability? CO4- U
(a) Communalist (b) Freemarket
(c) Deepecology (d) Cornucopian
5. EPR Stands for CO5- R
(a) Electronic Patient Registry (b) Electronic Patient Record
(c) Electrical Patient Record (d) Electrical Patient Registry

PART – B (5 x 3= 15 Marks)

6. What you meant by Carbon foot print. CO1- U
7. List out the key elements of green data center. CO2- U
8. What is the role of the Hypervisor? CO3- U

9. List out the three main categories of green-collar workers. CO4- U
10. List out the understanding current business scenario in your organization. CO5- U

PART – C (5 x 16= 80 Marks)

11. (a) Explain with Diagram Information technology influences business, society, and environment. CO1- U (16)
- Or
- (b) Explain the ways to reduce power use in an organization. CO1- U (16)
12. (a) Analyze How an efficient use of Green assets could lead to reduction in energy consumption? CO2- Ana (16)
- Or
- (b) Analyze the Sequence diagram (dynamic model) for “emissions check” CO2- Ana (16)
13. (a) Explain in details about the types of virtualization with example. CO3- U (16)
- Or
- (b) Explain in detail about Developing computer habits that save energy for green PC. CO3- U (16)
14. (a) Describe the diagram and short notes on Green Enterprise Transformation. CO4- U (16)
- Or
- (b) Describe the Applying the four dimensions to GET. CO4- U (16)
15. (a) Explain the Strategic Measures for Reducing Emissions and Demographic Information for research project Survey. CO5-U (16)
- Or
- (b) Explain the Business and Strategy Planning with Respect to the Environment and Technical Strategy and Planning CO5- U (16)