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Question Paper Code: 59220

B.E./B.Tech. DEGREE EXAMINATION, SEP 2020

Elective

Computer Science and Engineering

15UCS920- GREEN COMPUTING

(Regulation 2015)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any Six of the following Questions)

- _____ is the development of a suitable global strategic vision for an enterprise. CO1- U
(a) Green vision (b) Green Computing
(c) Green Solution (d) None of the above
- What major issue separates the computing haves from the have-nots CO1- U
(a) Green computing (b) Ergonomics
(c) The digital divide (d) Healthy computing
- A __ analysis can be carried out to further fine tune the green business objectives. CO2- U
(a) SWOT (b) Strength (c) Weakness (d) None of the above
- What standards do many organizations require all newly purchased CO2- U
computer equipment to meet?
(a) HUD (b) DNR (c) Energy Star (d) ACM
- What refers to results of intellectual activity in the industrial, scientific, literary, CO2- U
or artistic fields?
(a) Trademarks (b) Intellectual Property (c) Copy right (d) Patents
- Solid state drives (SSDs) have _____ and use much less energy. CO3- R
(a) no moving parts (b) no external parts (c) no internal parts (d) None of the above
- Products that contain hazardous substances must be marked with the __ logo. CO3- R
(a) EIP (b) ERP (c) EDP (d) ELP

8. ____ panels absorb solar radiation. CO3- R
(a) Photovoltaic (b) Sensitive (c) Solar (d) Hybrid
9. Which public cloud provider has announced green data center initiatives? CO4- R
(a) Cisco Systems (b) IBM (c) HP (d) All of the above
10. Which operating system is the most green? CO4- R
(a) Windows Vista (b) Windows XP (c) Linux (d) Apple's OS X

PART – B (3 x 8 = 24 Marks)

(Answer any Three of the following Questions)

11. When computing our company's carbon footprint, which areas we need to focus on. CO1- U (8)
12. Explain the 5 'M's of Carbon Metrics. CO2- U (8)
13. Write about teleconferencing and teleporting. CO3- U (8)
14. Explain how cloud computing is useful for reducing carbon emissions. CO4- U (8)
15. Describe the Future of Green IT in the Four Dimensions. CO4- U (8)