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Total Number of Pages: 2

MCA  
MCA205

**2<sup>nd</sup> Semester Regular Examination- 2016-17**

**GREEN IT**

**BRANCH: MCA**

**Time: 3 Hours**

**Max Marks: 100**

**Q.CODE: Z989**

**Answer Part-A which is compulsory and any four from Part-B.  
The figures in the right hand margin indicate marks.**

**Part – A (Answer all the questions)**

**Q1 Answer the following questions: *one sentence or multiple type or dash fill up type* (2 x 10)**

- a) We need Green IT for
  - i) Reduce power usage ii) Make money iii) Eco friendly iv) All of the above
- b) Different pollutants cause air pollution\_\_\_\_\_.
- c) Telecommuting is\_\_\_\_\_.
- d) Green Deign includes
  - i) Design for repair ii) Design for recycling or clean disposal iii) Both i and ii iv) Design for best company
- e) Municipal solid waste is\_\_\_\_\_.
- f) Green IT should do have a champion and a team leader
  - i) True ii) False
- g) Diseases caused by inhaling hydrocarbons are\_\_\_\_\_.
- h) Carbon footprint of a company is\_\_\_\_\_.
- i) The EPA estimated that datacenters consume \_\_\_\_\_ % of the nation's electrical power.
- j) WEEE directive is\_\_\_\_\_.

**Q2 Answer the following questions: *Short answer type* (2 x 10)**

- a) Define the term Triple Bottom Line of Green IT?
- b) What is 80plus program?
- c) How green and IT- A Good fit?
- d) Is reducing power consumption a green issue or a dollars issue?
- e) What are the advantages of server virtualization?
- f) How to conduct an energy audit?
- g) What are the don'ts of going Green?
- h) What do you mean by Biotic and Abiotic components of an Ecosystem?
- i) What is Metadata Management?
- j) How IT can reduce the need for transportation?

**Part – B (Answer any four questions)**

- Q3** a) How big of a role do green issues such as energy efficiency, carbon footprint, waste, space in the value proposition to prospective customers when they are looking at upgrading their datacenter? (10)  
b) Define radioactive waste. How to manage the used fuel in a nuclear reactor? (5)
- Q4** a) Classify the different types of waste? Impacts of waste on health. Usage of Basel convention in managing waste? Explain different methods to manage E-waste? (10)  
b) Explain Pooling with an example. (5)
- Q5** a) What do you mean by Greening IT? Explain how going green is exclusively about the explicit business drivers for many organizations? (10)  
b) What is automated tiered storage? Green advantages of automated tiered storage for Storage Area Networks (SAN). (5)
- Q6** a) How to optimize the airflow around the server and other networking equipment? (10)  
b) Benefits of paperless office. What you need to do to get out paper from your organization? (5)
- Q7** a) Different steps to explain how the non IT department conserves energy in the organization. (10)  
b) How to reduce power usage in your organization? (5)
- Q8** **Write short notes on the following**  
a) Green House Protocols(GHP) (5)  
b) Electronic Data Interchange(EDI) (5)  
c) IT Ecosystem (5)