

- N.B. 1) All questions are compulsory.  
2) Figures to the right indicate marks.  
3) Illustrations, in-depth answers and diagrams will be appreciated.  
4) Mixing of sub-questions is not allowed.

Q. 1 Attempt All (Each of 5Marks) (15M)

A. Multiple Choice Questions

- (i) ..... is one of the gas in CHG.  
a)Carbon dioxide, b)Nitrogen, c)Oxygen, d)none.
- (ii) ..... is replacing some old parts and upgrading computer according to requirement.  
a)Refurbishing ,b)Recycling, c)Returning ,d)Reusing
- (iii) Server which contains machine with power and network cabling for each unit.  
a)Blade server, b)Rack Server ,c)both a and b, d)None.
- (iv) ..... is one of the ingredient of PVC.  
a)Arsenic, b)Vinyl Chloride, c)Mercury, d)Cadmium.
- (v) NAS stands for .....  
a)Network-Access score b) Network-Access storage  
c) Network-Active storage d) Network-Access service

B. Fill in the blanks.

(Triple bottom Line,e-waste, Server Farm, Refurbish)

- (i) The three R's of Green IT are Reuse, Recycle and .....
- (ii) ..... is discarded computer parts.
- (iii) TBL stands for .....
- (iv) ..... is discarded computer parts.
- (v) A server Cluster is also known as .....

C. Answer in one-two lines

- (i) Define Green IT.
- (ii) What is Green IT Audit?
- (iii) State various states of Hard Drive.
- (iv) What is SSD.
- (v) What is SICT?

Q.2 Attempt the following (ANY THREE) (Each of 5 Marks) (15M)

- A. Explain the various environmental impacts of IT.
- B. Write a short note on software Energy Efficiency Techniques.
- C. Define attributes. List and explain different sustainable software attributes.
- D. What is context awareness? How can it help to save energy?
- E. What are Energy Metrics? List them.
- F. Write a short note on sustainable software.

Q.3 Attempt the following (ANY THREE) (Each of 5 Marks) (15M)

- A. What are green data Centre? Explain.
- B. Write a note on Organizational sustainability dimensions.
- C. Discuss in short the business drivers of Green IT.
- D. Explain the various energy management techniques for hard disk.

- E. What are the challenges in implementing green IT strategies?
- F. Write a short note on Storage Area Networks.

**Q.4 Attempt the following (ANY THREE) (Each of 5 Marks) (15M)**

- A. Write a note on Hierarchy of Sustainability Models.
- B. Distinguish between green IT and SITS.
- C. Write a short note on G-Readiness Framework.
- D. What are the various inter-organizational enterprise activities? Explain them.
- E. Explain the four business dimensions for green enterprise.
- F. Write a short note on SITS.

**Q.5 Attempt the following (Any THREE)(Each of 5 Marks) (15M)**

- A. List and Explain energy saving software techniques.
- B. Explain the various process or power states.
- C. Highlights of different energy management techniques for hard disks.
- D. Write a note on Multilevel Sustainable Information.
- E. Write a short note on Green IT Standards.

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