(2½ Hours) [Total Marks: 75]

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 the following

(a) **Select the correct alternative** (5M)

(i) _____ is one of the gas in GHG
   a) Carbondioxide   c) Oxygen
   b) Nitrogen   d) none

(ii) It measures the ability of system to work on various platform
   a) Supportability   c) Portability
   b) Dependability   d) Efficiency

(iii) Server which contains machine with power and network cabling for each unit.
   a) Blade server   c) Both a and b
   b) Rack server   d) None

(iv) _____ copies files based on their temporal locality to other disks and cannot be applied to online storage.
   a) MAID   c) RAID
   b) Green Store   d) PDC

(v) Reuse, recycle, _____ and Earth chater are well known Sustainability Principles.
   a) Refurbish   c) Reduce
   b) Regenerate   d) None

(b) **Fill in the blanks** (5M)
(Triple Bottom Line, Rescrap, Refurbish, Dependability, Efficiency,Table base Language, Goods-Dominant Logic, Service-Dominant Logic.)
(i) The 3 Rs of green IT are Reuse, Recycle and _____.
(ii) _____ is one of the usage related attributes.
(iii) TBL stands for _____.
(iv) _____ uses value in use concept.
(v) _____ is one of the process related attributes.

(c) **Answer the following in one or two lines:** (5M)
(i) Define Green IT.
(ii) List techniques used in data efficiency.
(iii) What do you mean by SAN.
(iv) What are different levels of information flow
(v) What is SICT?

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Q. 2   Attempt the following (Any THREE)   **(15M)**
(a) Explain with the help of diagram 3 R's of Green IT.
(b) Explain in details Impacts of IT on environment.
(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 the e-ways of disposal technique
(f) List and explain the various green IT devices

Q. 3   Attempt the following (Any THREE)   **(15M)**
(a) Explain the concepts of: server farm, cloud computing.
(b) Explain the various components of IT Infrastructure.
(c) Explain the various energy management techniques for hard disk.
(d) Write a short note on Business Drivers of green IT strategies.
(e) Explain any two System Level Management.
(f) What are the various organizational considerations in a green IT strategy.

Q. 4   Attempt the following (Any THREE)   **(15M)**
(a) Write a short note on Organizational Level Information
(b) Explain the various sustainability hierarchy models.
(c) Distinguish between green IT and SITS
(d) What are the various inter-organizational enterprise activities? Explain them
(e) Write a short note on LCA.
(f) What is SITS strategic framework.

Q. 5   Attempt the following (Any THREE)   **(15M)**
(a) Write a short note on green washing.
(b) Explain the various processor power states.
(c) What is green network protocol and its objectives.
(d) What is green readiness. Explain.
(e) Write a short note on NAS, SAN, DAS.