[Time: 2:30 Hours]   **[Marks:75]**

Please check whether you have got the right question paper.

N.B: 1.   All questions are compulsory.
        2.   Figures to the right indicate marks.
        3.   Draw suitable diagrams and illustrations wherever necessary.
        4.   Mixing of sub-questions is not allowed.

Q.1   Attempt All the Questions   **5M**

A) Choose the correct alternative

i. is integration of computer resources from various locations to form a common virtual platform.

a) Grid Computing   b) Distributed Computing

c) Cloud Computing   d) None of the Above

ii.   DAS is

a) Direct Area Storage   b) Direct Access Storage

c) Direct Attached Storage   d) Direct Access Service

iii. is an international standard that marks the energy efficiency electronic products.

a) LEED   b) Energy Star

c) WEEE   d) EPEAT

iv.   SSD's consume ----------------energy then HDD's.

a) Less   b)equal

c) no   d) more

v. focuses on the needs and requirements of upper management and help them on strategic management of organizations.

a) Executive Support system   b) Decision Support System

c) Management Information System d) Transaction Support System

B) Fill in the Blanks (Choose one from the pool)   **5M**

{e-waste, C0, data server, server farm, P0, context awareness,C6}

i.   A server cluster is also known as----------------

ii.is any unwanted or damaged electronic component.

iii.is developing application software that adapt to changes in the environment.

iv.   The --------------state indicate 100% CPU use.

v.is a central repository for data storage and management.

C) Explain the following in one or two lines   **5M**

i.   Green Washing

ii.   Public Cloud

iii.   PUE

iv.   Types of RAID

v.   SICT

Q.2   Attempt the following: (Any THREE)   **15M**
    A. Explain the various environmental impacts of IT.
    B. Write a short note on green washing.
    C. Discuss the software tools used to create energy efficient applications.
    D. Explain the life cycle of a device.
    E. What are the 3 R's of green IT?
    F. Write a short note on sustainable software.

Q.3   Attempt the following: (Any THREE)   **15M**
    A. Explain the various green data center metrics.
    B. Write a short note on Green Network protocol.
    C. Discuss in short the business drivers of green IT.
    D. What energy efficiency technologies should be used to reduce running cost in data center?
    E. Describe the organizational considerations in Green IT Strategy.
    F. Write a short note on Storage Area Networks.

Q.4   Attempt the following: (Any THREE)   **15M**
    A. Discuss the different levels of information flow
    B. Explain the various stages of Life Cycle Assessment.
    C. Write a note on G-Readiness Framework.
    D. List and explain the 4 business dimensions for greening enterprise.
    E. Discuss Organizational Level Information?
    F. Write a note on SITS.

Q.5   Attempt the following:(Any THREE)   **15M**
    A. List and explain energy saving software techniques.
    B. Discuss the impact of 'electronic devices' on the environment during each phase of their life cycle.
    C. What are the steps involved in developing a green IT strategy?
    D. What are the various issues faced in greening the inter-organizational enterprise activities?
    E. Write a note on Green IT Standards.