APR. -16/BE/Insem. - 76

B.E.(Information Technology)

GREEN IT - PRINCIPLES AND PRACTICES

(2012 Course) (Semester - II)(Elective-IV) (414464C)

Time : 1Hour]   *[Max. Marks :30*

Instructions to the candidates:

    1)   *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q6.*

    2)   *Neat diagrams must be drawn wherever necessary.*

    3)   *Figures to the right indicate full marks.*

    4)   *Use of calculator is allowed.*

    5)   *Assume suitable data if necessary.*

Q1) a)   Discuss how to green the unwanted hardware.   [5]

      b)   How energy consumption due to software's can be minimized by improving computational efficiency.   [5]

OR

Q2) a)   Explain the life cycle of an electronic device. Also based on your view discuss the environmental impact of each stage.   [5]

      b)   What approaches an enterprise can follow to green their Information Technology.   [5]

Q3) a)   Explain the necessity for server power management. Also describe its mechansim.   [6]

      b)   How the usage related quality attributes are measured for sustainable software.   [4]

OR

Q4) a)   Which IT platform innovations are used for data centers?   [6]

      b)   How to calculate Project's Carbon Footprint?   [4]

Q5) a) Explain the power states of hard disk drive. [5]

b) What are the objectives of energy optimizing network protocol design.[5]

OR

Q6) a) Explain storage media characteristics for HDD, Magnetics tapes and SSD. [5]

b) What are the objectives of green networking and communication which can benefit user and operator needs alike? [5]

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