FACULTY OF ENGINEERING & TECHNOLOGY
B.E.(IT/CSE)Year Examination-June-2015
Green IT (Elective-II)
(Revised)

Time: Three Hours   **Maximum Marks: 80**

"Please check whether you have got the right question paper."
i)   *Q. No. 1 and Q. No. 6 from section A & B respectively are compulsory.*
ii) *Solve two questions from each section remaining.*
iii) *Figure to right indicates full marks.*
iv) *Assume suitable data if required.*

SECTION-A

Q.1	What is Green IT? Explain in detail to holistic approach to Greening IT.	10
Q.2 a)	Explain enterprise Green IT strategy.	07
b)	Explain the life cycle stages of a device or hardware.	08
Q.3 a)	What are software sustainability metrics explain.	07
b)	What is green software, explain context awareness.	08
Q.4 a)	What are the challengers into data how to green data centers explain.	07
b)	Explain (1) data center IT infrastructure (2) green data centre metrics	08
Q.5	Write short notes on the following. (any three)	15

1) Green IT Burden or opportunity.
2) Computational efficiency.
3) System level energy management.
4) Sustainable development.

SECTION-B

Q.6	What is green network? Describe in detail qualities of Green network & communication.	10
Q.7 a)	What is green cloned computing? Explain cloned computing energy usage model.	08
b)	With suitable diagram example Green cloud architectures.	07
Q.8 a)	What are the enterprise activates and green issues explain.	07
b)	Explain (1) EMA working group (2) contribution from standardization bodies for green of WS.	08
Q.9 a)	Explain seven steps approach to creating green IT strategy.	08
b)	Explain green network protocols.	07
Q.10	Write short notes on the following. (any three)	15

1) Carbon emissions
2) IaaS provider
3) Green IT megatrend
4) Awareness to implementation.