SUBJECT CODE NO:- P-335
FACULTY OF ENGINEERING AND TECHNOLOGY
B.E. (CSE/IT) Examination May/June 2017
Green IT (CSE/IT) [Elective-II]
(Revised)

[Time: Three Hours]   [Max.Marks:80]

Please check whether you have got the right question paper.

N.B
i) Q.1& Q. 6 are compulsory.
ii) Solve any two questions from Q.2 to Q.5 for section A & any two questions from Q.7 to Q.10 sections B.
iii) Draw appropriate diagrams wherever necessary.

Section A

Q.1	a) Explain the following terms:- i) Active software ii) Idle software.	04
	b) Explain the various environmental impacts of IT.	06
Q.2	a) Explain how the following hazardous chemicals used in manufacturing of a electronic device have effect on humans:- i) Lead ii) Cadmium iii) Mercury iv) Arsenic	08
	b) Explain the various strategies to reduce the power consumption by desktop computers.	07
Q.3	a) Write a note on Green House Gas Emissions.	07
	b) Explain how computer's entire life cycle can be greened.	08
Q.4	a) Write a note on following power tools. 1) Power Informer 2) Energy Checker	07
	b) Explain how usability attribute can be used to asses sustainability of software.	08
Q.5	a) Explain how server Design & Server systems. Development support Green Data center.	07
	b) Write note on following energy Management techniques for Hard disks. 1) State Transitioning 2) Caching	08

Section B

Q.6	a) Explain the various strategies suggested by business for social Responsibility (BSR), 2009 to reduce carbon emissions at all stages of business life cycle.	04
	b) Indentify & discuss the four major ways in which organizations can gain value by greening an enterprise.	06
Q.7	a) Explain the benefits of Energy efficient Networks.	07
	b) Explain the Green cloud architecture in brief.	08

Q.8	a) Explain the following features of clouds enabling green computing:
	    1) Dynamic Provisioning
	    2) Multi-tenancy
	    3) Server utilization
	    4) Data centre efficiency
		08

	b) Explain the five green & profit oriented policies employed for scheduling by Green Broker.	07
Q.9	a) Write a note on Green supply chain & Logistics management.	07
	b) What are the major elements of the value chain, and how does 'closing the Loop' relate to value chain?	08
Q.10	a) Write note on E-commerce & Greening the extended Enterprise.	08
	b) Explain in brief the concept of Smart Grid.	07

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