

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

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|-----|---|----|
| 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

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|------|--|----|
| 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 |