

Total No. of Printed Pages:01

SUBJECT CODE NO: H-240
FACULTY OF ENGINEERING AND TECHNOLOGY
B.E. (CSE/IT)
Elective-II Green IT
(REVISED)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- i) Question No.1 and 6 are compulsory.
 - ii) Attempt any two questions remaining from each section.
 - iii) Figures right indicate full marks.
 - iv) Assume Suitable data if necessary.

SECTION A

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|-----|-----------------------------------------------------------------------------------|----|
| Q.1 | a) Write a short note on OCED Green IT framework. | 05 |
| | b) Write a short note on i) Hierarchical storage management. | 05 |
| Q.2 | a) Explain environmental impact of IT. | 08 |
| | b) Explain processor power states in detail. | 07 |
| Q.3 | a) Write a short note on : i) SOA ii) Virtualization | 08 |
| | b) Explain term computational efficiency in software energy efficiency technique. | 07 |
| Q.4 | a) Explain life cycle of device or hardware. | 08 |
| | b) Explain term context awareness in software energy efficiency technique. | 07 |
| Q.5 | a) Explain packaging & transportation phase in device or hardware life cycle. | 05 |
| | b) Explain in detail software energy efficiency techniques. | 10 |

SECTION B

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|------|----------------------------------------------------------------------------------------|----|
| Q.6 | a) Explain routing protocol AODV cost in detail. | 05 |
| | b) Explain the term green IT trends. | 05 |
| Q.7 | a) List data centre IT infrastructure components? Explain any one component in detail. | 08 |
| | b) Explain a seven step approach to explain Green IT strategy. | 07 |
| Q.8 | a) What is Cloud Computing & explain the characteristics of cloud computing. | 08 |
| | b) Explain objectives of green computing. | 07 |
| Q.9 | a) List & explain business value dimensions for enterprise greening. | 08 |
| | b) Explain Cloud Computing deployment models. | 07 |
| Q.10 | a) Describe in detail objectives of green network protocols. | 08 |
| | b) Write a short note on : Green Enterprise | 07 |