

Total No. of Printed Pages:01

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

[Time: Three Hours]

[Max.Marks:80]

- N.B Please check whether you have got the right question paper.
- 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**

- |     |   |          |
|-----|---|----------|
| Q.1 | a) Explain terms: i) Modifiability and Reusability ii) Portability.<br>b) Write a short note on Green Washing.                                      | 05<br>05 |
| Q.2 | a) Explain term server in data centre IT infrastructure.<br>b) What is Green IT? Explain holistic approach to greening IT.                          | 08<br>07 |
| Q.3 | a) Explain term ideal efficiency in software energy efficiency technique.<br>b) Draw & explain the states of mechanical hard disk drives in detail. | 08<br>07 |
| Q.4 | a) What is the difference between Green IT 1.0 & Green IT 2.0?<br>b) Explain term context awareness in software energy efficiency technique.        | 07<br>08 |
| Q.5 | a) Write a short note on: i) Vectorization ii) Efficient Algorithms.<br>b) State & explain energy management techniques for hard disk.              | 08<br>07 |

**SECTION B**

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|------|---|----------|
| Q.6  | a) Explain routing information protocol cost in detail.<br>b) Write a short note on SOA.                              | 05<br>05 |
| Q.7  | a) Explain core components in green networking.<br>b) Describes the features of Cloud enabling Green Computing.       | 08<br>07 |
| Q.8  | a) Explain the categories of information systems in greening enterprise.<br>b) Explain objectives of green computing. | 08<br>07 |
| Q.9  | a) Write a note on: IAAS Provider.<br>b) Write a short note on EMIS.  | 08<br>07 |
| Q.10 | a) Describe Green IT: A Megatrend.<br>b) Explain Cloud Computing deployment models                                    | 08<br>07 |