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**SUBJECT CODE NO: E-136**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**B.E.(CSE/IT) Examination Nov/Dec 2017**  
**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 from each section.
  - iii) Figures right indicates full marks.
  - iv) Assume Suitable data if necessary.

**Section A**

- |     |  |    |
|-----|--|----|
| Q.1 | a) Explain the drawbacks of global warming on environment.                         | 05 |
|     | b) Explain role of software in Green IT infrastructure.                            | 05 |
| Q.2 | a) What is Green IT? Explain dimensions of Green IT.                               | 08 |
|     | b) Explain sustainable software methodologies in detail.                           | 07 |
| Q.3 | a) Write a short note on: i) Networking in data centre ii) Storage in data centre  | 08 |
|     | b) Explain 3 R's of Green IT.  | 07 |
| Q.4 | a) Explain term data efficiency in software energy efficiency technique.           | 08 |
|     | b) Write a short note on: i) RAID with power awareness ii) Power aware data layout | 07 |
| Q.5 | a) Explain life cycle of device or hardware.                                       | 08 |
|     | b) What is green data centre & explain associated energy challenges.               | 07 |

**Section B**

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|------|--|----|
| Q.6  | a) Explain the cost associated with IPv4.                                    | 05 |
|      | b) Describe the term green marketing.  | 05 |
| Q.7  | a) Which domains are considered with energy efficiency network requirements? | 08 |
|      | b) Draw & explain Cloud usage model in detail.                               | 07 |
| Q.8  | a) How RFID is used for environmental sustainability.                        | 08 |
|      | b) Explain TCP cost in detail.   | 07 |
| Q.9  | a) Write a note on: IAAS Provider.   | 08 |
|      | b) Write a short note on EMIS.   | 07 |
| Q.10 | a) Explain core components in green networking.                              | 08 |
|      | b) Explain the term Green Cloud Computing.                                   | 07 |

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