

(3 hours)

Total Marks: 80

- N.B. (1) Question no. 1 is compulsory.  
 (2) Attempt any **three** out of remaining **four** questions.  
 (3) **Figures** to the **right** indicate **full** marks.

Q.1 Attempt any **Four** out of **Five** questions

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|---|----|
| a. Explain OCED framework for Green IT  | 5  |
| b. What is Green Washing?   | 5  |
| c. What is Triple Bottom frame work ?   | 5  |
| d. What is Life Cycle Assessment? Explain 4 stages of LCA.                            | 5  |
| e. Explain SITS value curve in SITS strategic framework.                              | 5  |
| Q.2 a. Explain life cycle of a device or hardware in detail.                          | 10 |
| b. Give few examples to illustrate how context awareness leads to “Smarter” device ?  | 10 |
| Q.3 a. Explain sustainable software methodologies.                                    | 10 |
| b. What are different power states of hard disk ?                                     | 10 |
| Q.4 a. Briefly describe and compare the major system level energy management schemes? | 10 |
| b. Describe key facilities and IT components within data centres.                     | 10 |
| Q5. a. What is strategic thinking, planning and implementation for green initiatives? | 10 |
| b. Descibe strength and weaknesses of G-readiness framework                           | 10 |
| Q.6 Write a short note on (any four)  |    |
| a. Strategies to reduce carbon emission suggested by BSR                              | 5  |
| b. Three R’s of Green IT  | 5  |
| c. Differences between WEEE, RoHS and REACH   | 5  |
| d. Explain Green enterprise from Value chain perspective                              | 5  |
| e. In brief explain SICT capability building blocks                                   | 5  |