

(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 |