(Time: 3 Hours)   Total Marks: 80

N.B. (1) Question No. 1 is compulsory.

(2) Attempt any three of the remaining five questions.

(3) Figures to the right indicate full marks.

Q.1   **Write short notes on:**   **[20]**

a) What do you mean by Global warming, greenhouse gases? Explain

b) Write a short note on the smart grid.

c) What is the difference between RoHS and WEEE?

d) Explain the life cycle of the device or hardware.

Q.2 **(a)** Communication and social media play an important role in managing Green IT and justify the statement.   **[10]**

(b) What are the major categories of information systems within an organization? Provide examples of greening enterprise activities at each level.   **[10]**

Q.3 **(a)** Which are the programming methods used to achieve computational efficiency?   **[10]**

(b) How to calculate the Cooling Needs of any organization? Explain in detail.   **[10]**

Q.4 **(a)** What are the different stages in the electronic device? Explain the impact of every stage on the environment.   **[10]**

(b) What is meant by green IT? Explain a holistic approach to green IT.   **[10]**

Q.5 **(a)** Discuss the drivers for businesses to implement the green IT strategy. Illustrate with relevant real-world examples.   **[10]**

(b) What are the various e-waste disposal techniques, and which is the most effective among them and why?   **[10]**

Q.6 **(a)** Describe in detail the green building standards and green data centers.   **[10]**

(b) Distinguish between the direct effects of green IT and the enabling effects of green IT–based applications.   **[10]**

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