

- N.B.:** 1) Question No.1 is **compulsory**.
2) Attempt any **three** out of remaining **five**.
3) Figures to the right indicate full marks.

1. (a) Explain in detail the climate change, global warming, greenhouse gases and greenhouse effect with suitable example. (10)
(b) What is meant by green IT? Why is it gaining greater relevance and importance ? (10)
2. (a) How software impact the environment and the energy consumption of computing systems? (10)
(b) Discuss the concept of Greening computers entire life cycle with suitable diagram. (10)
3. (a) What are the different stages in the lifecycle of an electronic device? Explain the impact of every stage on environment. (10)
(b) Which environmentally sensitive materials are typically used in the manufacturing of a product like notebook and smart phones? Discuss the alternative for each material. (10)
4. (a) Which are the programming methods used to achieve computational efficiency? (10)
(b) What is fueling the growth for data center capacity? (10)
5. (a) Discuss the different power states of a hard disk. (10)
(b) What are the benefits of Energy Efficient Networks? (10)
6. (a) Explain the business dimensions for green IT transformation. (10)
(b) Describe in detail the green building standards and green data centers. (10)