

19. (a) Describe the role-based view of green IT.

Or

- (b) Explain the enterprise lifecycle plan in green IT.

20. (a) Describe the primary Green IT drivers for GoodMead Hospital.

Or

- (b) Explain ZeeTel's Green IT strategies.

PART C — (3 × 10 = 30)

Answer any THREE questions.

21. Illustrate the Green IT Strategies with example.
22. Explain the Green IT and Organizational Systems in detail.
23. Illustrate the virtualization architecture in detail.
24. Describe the Green enterprise transformation with an example.
25. Explain the economic and technical dimensions of AuPack.

S.No. 6355

P 22 CSE 2 C

(For candidates admitted from 2022–2023 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2023.

Computer Science — Elective

GREEN COMPUTING

Time : Three hours

Maximum : 75 marks

PART A — (20 marks)

Answer ALL questions.

- I. (A) Multiple choice questions: (5 × 1 = 5)
1. Risks associated with environmental fines and penalties are _____
- (a) Financial Measures
 - (b) Customer Measures
 - (c) Internal Business Processes
 - (d) Learning and Growth
2. A Green assets and infrastructure comprise substantial part of that _____
- (a) Long-term approach
 - (b) Short-term approach
 - (c) Medium-term approach
 - (d) Both (a) and (b)

3. _____ is achieved using specialized software which creates partitions of a server into smaller virtual servers to maximize server resources.
(a) Virtualization (b) Socialization
(c) Communication (d) Transmission
4. A GIS (or a CEMS or EIS) is a software system that provides support to the business to implement its _____.
(a) ERBS (b) ERAS
(c) ERDS (d) ERRS
5. _____ is made up of data that belong to each of the four groups of systems.
(a) Green network (b) Data repository
(c) Green system (d) Green data center
- (B) Fill in the blanks: (5 × 1 = 5)
6. Information technology influences business, society, and _____
7. _____ deals with carbon data, storage, transmission, and its interfaces with other data.
8. _____ is one of the fastest growing components of waste stream in the world.
9. _____ is arguably the most important aspect of Green ICT in terms of making an overall impact on sustainability.
10. _____ Used to create and model subsystems.

- II. Answer the following: (5 × 2 = 10)
11. What are the green IT dimensions in green computing?
 12. What is the role of green business analysis?
 13. How is telecommuting a green way to work?
 14. List out the deliverables in a Green IT project.
 15. How does Aupak deal with the social dimension?

PART B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b).

16. (a) Describe the challenges of a carbon economy.
Or
(b) Discuss the Various areas of influence of a ERBS.
17. (a) What are the factors that influence the green data centre? Explain.
Or
(b) Explain the various aspects of a green solutions architecture.
18. (a) Write short notes on the role of electric utilities.
Or
(b) Discuss about the Green grid framework in detail.