

FACULTY OF SCIENCE

B.Sc. Honors in Computer Science (CBCS) I - Semester Examination, December 2024

Subject: Fundamentals of Information Technology

Time: 3 Hours

Max. Marks: 80

PART – A

Note: Answer any Eight questions.

(8x4=32 Marks)

1. Write about the functionality of Modems.
2. What is connectivity and interactivity?
3. Explain about fragmentation concept in operating system.
4. Discuss about power supply in computer system unit.
5. Explain about compression and decompression techniques.
6. Discuss the data storage in hierarchical order.
7. Briefly explain about various video communication devices.
8. Discuss the features of World Wide Web.
9. What are the softwares used for cyber space.
10. Explain about management information system.
11. What is testing? Discuss various types of testing.
12. What is encryption and decryption? Explain with an example.

PART – B

Note: Answer all the questions.

(4 x 12 = 48 Marks)

13. a) Discuss the generations of programming languages with examples.
OR
b) What is an operating system? Write the functions or services of operating system.
14. a) Explain various pointing devices with uses and illustrations.
OR
b) Describe in detail about relational database management system.
15. a) Draw and explain different topologies of local area networks with advantages and disadvantages for each.
OR
b) What is a spread sheet? Explain mathematical and statistical formulae that are used in a spread sheet.
16. a) Draw and explain different phases of system analysis and design.
OR
b) Discuss various threats to computers and communication systems.
