

## **CLUSTER UNIVERSITY SRINAGAR**

**Class: - UG 1<sup>st</sup> Semester (NEP)**

**Paper Title: Fundamentals of Computers**

**Max. Marks: - 60**

**Subject Type: Major**

**Session: 2024-25**

**Min. Marks: - 24**

**Subject: Computer Applications**

**Batch: - 2024 & Backlog**

**Time: - 02 Hours**

**Note: (Attempt any two questions from Section "A" five from Section "B" and all questions from Section "C")**

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### **Section A: Long answer type. (400 Words) Attempt any two questions (2 x 10 = 20 marks)**

- Q1. Describe the basic organization of a digital computer. Also explain the role of each component in overall functioning of the computer system.
- Q2. What is an operating system. Explain how it helps in managing hardware and software resources of a computer system.
- Q3. What is the Internet? Discuss its various applications that have become essential in today's world.
- Q4. Define a computer network. Explain the different types of computer networks.

### **Section B: Medium answer type. (150 Words) Attempt any five questions (5 x 4 = 20 marks)**

- Q5. Describe the difference between hardware and software. Explain how software and hardware help in overall functioning of the computer.
- Q6. What is an algorithm? Discuss its features and explain why algorithms are important in problem-solving.
- Q7. What is a positional number system? Explain with help of a suitable example.
- Q8. Describe the various generations of computers?
- Q9. Define the terms: Web Page, Home Page, Website, and Web Browser.
- Q10. What are the main components of a Central Processing Unit (CPU)? Explain its role in the execution of a program.
- Q11. Describe the process of converting a binary number to a decimal number. Also convert the binary number 11011 to its decimal equivalent.

### **Section C: Short answer type. (20 Words) Attempt all questions (8 x 2.5 = 20 marks)**

- Q12. What is the main function of Central Processing Unit (CPU)?
- Q13. Differentiate between system software and application software.
- Q14. What is a flowchart?
- Q15. Write any three features of Android operating system?
- Q16. What is the role of a Web Browser in accessing the Internet?
- Q17. What is a URL and what does it represent?
- Q18. What is a system software? Provide two examples.
- Q19. Convert the binary number 1111 to decimal.