

Reg No:.....

K24FY1434-B

Name :.....

First Semester FYUGP Computer Science Examination
November 2024 (2024 Admission onwards)
KU1DSCCSC107 (ESSENTIALS OF INFORMATION
TECHNOLOGY)
(EXAM DATE : 04-12-2024)

Time : 90 min

Maximum Marks : 50

Part A (Answer any 6 questions. Each carries 2 marks)

1. Differentiate input and output devices. 2
2. What is the role of ALU in computer system? 2
3. What is the usage of ports in computer system? Which are the different types? 2
4. Convert the decimal number 97 into binary. 2
5. What is system software? Give two examples. 2
6. Explain the difference between Retail and Open-Source software licensing. 2
7. List the advantages of using flowcharts. 2
8. List any 4 advantages of computer networking. 2

Part B (Answer any 4 questions. Each carries 6 marks)

9. Describe the components of a computer system and their functions. 6
10. Describe the memory hierarchy and the purpose of cache memory in a computer system. 6
11. Explain complements of binary numbers. 6
12. Explain different types of software with example. 6
13. Differentiate between loader and linker. 6
14. Explain network topologies. 6

Part C (Answer any 1 question(s). Each carries 14 marks)

15. (a) Explain various number codes in detail. 7
(b) Convert the decimal number 453 into binary, octal, and hexadecimal number systems. Explain the steps involved in each conversion and the importance of these number systems in computing. 7
16. (a) Discuss the components and advantages of computer networks. Explain the various types of network topologies. 7
(b) Explain different types of computer networks 7