Reg No:	K24FY1318 (A)	
Name :		
First Semester FYUGP Computer Science Examination		
NOVEMBER 2024 (2024 Admission onw	vards)	

AND PROGRAMMING) (DATE OF EXAM: 2-12-2024)

KU1DSCCSC103 (FUNDAMENTALS OF COMPUTERS

Time	e: 90 min Maximum Mark	s:50
P	Part A (Answer any 6 questions. Each carries 2 marks)	
1.	What are the key components of a computer system, and what role does each	h play?
2.	Define a computer. What are its primary characteristics?	2
3.	Define a sound card and explain its function in a computer system.	2
4.	Perform binary division of 1110 by 10.	2
5.	What is LAN	2
6.	what is the use of variables in programming and differentiate between in floats, and strings in the usage of memory.	ntegers 2
7.	What is conditional execution? Provide an example using an "if" statem check if a number is positive or negative.	nent to
8.	Compare assembly language and high level language	2
	Part B (Answer any 4 questions. Each carries 6 marks)	
9.	Discuss how a computer processes data, its ability to store information, a versatility in performing multiple tasks.	and its
10.	Describe the internal components of a motherboard and their important computer system.	ce in a
11.	Discuss 1's complement and 2's complement of binary numbers, and explain they are used in binary arithmetic. Include examples of complement operand their significance in representing negative numbers.	
12.	Describe shareware, freeware, and open-source software. How do they d terms of distribution and usage rights?	iffer ir 6
13.	Discuss modular programming and structured programming	6
14.	Provide examples of how each control structure is used to manage the floprogram.	ow of a
	Part C (Answer any 1 question(s). Each carries 14 marks)	

- 15. (a) Perform binary addition, subtraction, illustrating each operation with examples. Show the steps involved in each operation.
 - (b) Convert a decimal number to its binary, hexadecimal, and octal equivalents. Explain the process with an example. Include step-by-step instructions for the conversion.
- 16. What are the key functions of an operating system? Explain with examples of popular operating systems used today.