D1BCS2504

Name: ....

Reg. No.: ....

FIRST SEMESTER FYUGP EXAMINATION NOVEMBER 2025

(Regular/Improvement/Supplementary)

MINOR

CSC1MN101: EXPLORING COMPUTER BASICS & COMPUTATIONAL THINKING

Time: 2 Hrs. **Maximum Marks: 70**

M: Mark BL: Bloom's Taxonomy Level (1 to 6) CO: Course Outcome

Section A: Answer all questions. Each carries 3 marks. Ceiling: 24 Marks				
No.	**Question**	**M**	**BL**	**CO**
1.	State the main technology used in the first generation of computers and name one computer from that generation.	3	1	CO1
2.	Why Supercomputers are preferred over Mainframe Computers for scientific research?	3	2	CO1 CO3
3.	Convert the number 101010110_2 to its equivalent decimal number.	3	3	
4.	Convert the number 3268_{10} to its equivalent binary number.	3	3	CO3
5.	What do you mean by volatile memory? Give one example.	3	2	CO1 CO2 CO3
6.	Describe the functions of a buzzer.	3	2	CO1 CO2
7.	Differentiate between input and output devices. Give examples.	3	2	CO1 CO2
8.	Compare any two common strategies used in problem-solving in Computer Science.	3	2	CO5 CO6
9.	Describe the purpose of using flowcharts in algorithm development.	3	2	CO5
10.	What is the significance of flow direction in a flowchart? How it is indicated?	3	2	CO5

Section B: Answer all questions. Each carries 6 marks. Ceiling: 36 Marks				
No.	**Question**	**M**	**BL**	**CO**
11.	What are the primary advantages of using computers in various fields? Explain any three with examples.	6	2	CO1 CO3
12.	Using a neat diagram, describe the components of a CPU.	6	2	CO1 CO2
13.	Explain the main storage devices in a computer.	6	3	CO1 CO2
14.	What are ports? List the different types of ports found on a computer motherboard, and briefly describe the function of each.	6	3	CO2
15.	Explain the features of microphone.	6	2	CO2
16.	What is the difference between multiprogramming and batch processing operating systems?	6	2	CO4
17.	Identify the main features of high-level programming languages. Give examples.	6	2	CO4
18.	Draw a flow chart to find the greatest numbers among two.	6	3	CO5

Section C: Answer any one question. Each carries 10 marks. (1 x 10 = 10 Marks)				
No.	**Question**	**M**	**BL**	**CO**
19.	With a neat labelled diagram explain the concept of memory hierarchy in a computer system.	10	2	CO1 CO2 CO3
20.	Discuss the main characteristics of an algorithm. Explain why these are essential for effective problem solving in computing.	10	2	CO5