



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Honours/Programme 1st Semester Examination, 2022-23

**CMShGEC01T/MSGCOR01T-COMPUTER SCIENCE (GE1/DSC1)**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.  
All symbols are of usual significance.*

**GROUP-A**

1. Answer any **four** questions from the following:

2×4 = 8

- (a) What is the role of the function-index?
- (b) How break and continue statement works?
- (c) Comment on exception handling in Python.
- (d) Differentiate between PROM and EPROM.
- (e) What is micro-instruction?
- (f) What is Compiler?
- (g) What is Decision Table?

**GROUP-B**

Answer any **four** questions from the following

8×4 = 32

2. (a) Write advantages and disadvantages of Flowchart over Algorithm. 2+2
- (b) Define address bus, data bus and control bus with diagram. 4
3. (a) Explain basic structure of IAS computer. 4
- (b) Explain working of Level-1 and Level-2 cache memory between CPU and main memory. 4
4. (a) Write a python program to find factorial of a given number using recursion. 4
- (b) How to compare string in python? 3
- (c) What is DRAM? 1
5. (a) Draw a block diagram of a computer system. 4
- (b) Write down the functions of ALU. 2
- (c) What is CU? 2

6. (a) What do you mean by Ternary operator? 2  
(b) Explain with example 2+2+2  
(i) Bitwise operator (ii) Increment operator (iii) Relational operator
7. (a) Write a program to check whether a number is prime or not. 3  
(b) What do you mean by built-in-functions in Python? Give examples. 3  
(c) Is python is case sensitive? Justify. 2
8. Write short notes on any *two*: 4×2 = 8  
(a) Compare between RISC and CISC  
(b) Tri-state buffer.  
(c) Event Driven Programming.