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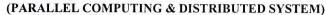
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# PG (CBCS) M.SC. Semester- I Examination, 2023 COMPUTER SCIENCE

PAPER: COS 102



Full Marks: 40

Time: 2 Hours

The figures in the right-hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

### Write the answer for each unit in separate sheet

## **M1: PARALLEL COMPUTING**

### **GROUP-A**

## 1. Answer any TWO of the following questions:

 $2 \times 2 = 4$ 

- a) What is parallel computing?
- b) How parallel computing influenced the throughput of a system?
- c) What do you mean by latency hiding?
- d) Explain different between SIMD and MIMD.

#### **GROUP-B**

### 2. Answer any TWO of the following questions:

 $2\times4=8$ 

- a) Discuss various types of parallel computing.
- b) Explain pipelining with its advantages and disadvantages.
- c) Discuss about various message passing technique.
- d) Explain PRAM Model.
- e) Explain the performance metrics of parallel computing.

#### **GROUP-C**

#### 3. Answer any ONE of the following questions:

1×8=8

- a) Define Distributed memory system. Discuss memory organization for parallel computer.
- b) What is Inter Process Communication? How does Inter Process Communication work?

(P.T.O)



## **M2: DISTRIBUTED SYSTEM**

### **GROUP-A**

## 1. Answer any TWO of the following questions:

 $2\times2=4$ 

- a) What is Cloud computing?
- b) What are the advantages of Cloud services?
- c) What is MPLS?
- d) What is service oriented computing in Cloud?

## **GROUP-B**

### 2. Answer any TWO of the following questions:

 $2\times4=8$ 

- a) Write a short note on AWS?
- b) What is Virtualization? Why could need Virtualization?
- c) What is DHT? Why DHT is used?
- d) Explain the use of Utility computing in the Cloud.

### **GROUP-C**

### 3. Answer any ONE of the following questions:

 $1 \times 8 = 8$ 

- a) Explain the reference model of Cloud computing.
- b) Classify and explain the different types of Cloud.

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