

# ANNUAL EXAMINATION 2020

(Only for Regular Students)

**Centre No.** 135

**Class-**B.Sc.-I

**Paper No-** I

**Time-** 3 hrs.

**Centre Name-** Disha College, Raipur (C.G.)

**Subject-**Computer Science

**Paper Name-** Computer Fundamental

**M.M.-**50

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Note – Attempt all units. Each question carries equal marks.

## Question 1 (Unit I)

- (a) Draw and explain the schematic diagram of microcomputer.
- (b) What do you understand by Computer Network?

**OR**

- (c) Explain various measurement units for measuring processing speed of a microprocessor.
- (d) Explain the various features of Supercomputer and Desktop computer.

## Question 2 (Unit II)

- (a) What is the purpose of providing registers in a CPU? Describe various registers which are usually provided in a microprocessor?
- (b) What do you mean by fetch cycle? Draw and explain the timing diagram for opcode fetch cycle for Intel 8085.

**OR**

- (c) What do you understand by Instruction and Data flow?
- (d) What do you mean by Interrupt and exceptions?

## Question 3 (Unit III)

- (a) What is memory hierarchy? Explain the features of primary memory.
- (b) What is the function of a cache memory? Explain the terms cache hit and cache miss.

**OR**

- (c) What are SCSI and EIDE adapters? Discuss their applications.
- (d) What are PCMCIA cards and slots? Discuss their applications.

## Question 4 (Unit IV)

- (a) Discuss the construction of mechanical, capacitive and Hall Effect key-switches.
- (b) Discuss asynchronous scheme which are used for data transfer with suitable examples.

**OR**

- (a) What are programmable and nonprogrammable ports?
- (b) What is DMA controller? Describe Intel 8237.

## Question 5 (Unit V)

- (a) What are utility programs? Distinguish among Interpreter, Compiler and Assembler.
- (b) What is the difference between a programming language and an application package?

**OR**

- (c) What are common and special symbols for flow charts? Discuss the application of flow chart.
- (d) What are the differences between subroutines and macros?

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