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B.Sc. (Part - I) Examination, 2022
(New Course)
COMPUTER SCIENCE
Paper First
(Computer Fundamental)

Time : Three Hours]   *[Maximum Marks:50*

Note: Attempt any two parts from each question. All questions carry equal marks.

Unit - I

1. (a) Explain control flow and data flow computers.

   (b) Explain multi user and multi programming system with example.

   (c) Describe the evaluation of analog and digital computers.

Unit - II

2. (a) Explain various instructions of Intel 8085 microprocessor.

   (b) Write and explain parts of CPU.

   (c) What is timing diagram? Draw and explain the timing diagram for memory read operation.

Unit - III

3. (a) Differentiate primary and secondary memory with example.

   (b) Describe the working of memory management unit.

   (c) Explain destructive and non - destructive readout.

Unit - IV

4. (a) What are output devices? Explain **any two** output devices with example.

   (b) Explain serial and parallel ports.

(c) Draw and explain architecture of I/O processor.

Unit - V

5. (a) Write the difference between machine language and assembly language.

(b) Explain the following:

(i) Flowchart

(ii) Open Source Software

(c) Write and explain the steps for software development.