Half Yearly Examination 2020-21
B.Sc. 1st Year (Computer Science)
Hardware
Paper First

Max.M.= 50

Note:- Attempt any two questions in each section . Each question has equal marks.

Section I

a) What are the major components of digital computer? Explain with the help of diagram.

b) What are the memory addressing capability of CPU and word length and processing speed of computer?

c) Define the following with suitable example (any two) :

i) Hardware   ii) Flynn's classification   iii) Analog computer

Section II

a) Draw and explain the timing diagram for memory read cycle for INTEL 8085

b) What do you mean by addressing mode? Explain any four addressing modes.

c) Draw and explain the structure of CPU organization.

Section III

a) What do you mean by cache memory? Explain utility of virtual memory.

b) What do you understand by MMU? Explain its working in brief.

c) Explain the following terms (any two):-

i) DASD   ii) Primary memory   iii) Secondary memory

Section IV

a) Difference between microcontroller and microprocessor ?

b) Explain the various interrupts of INTEL 8085.

c) Write short notes on the following(any two):-

i) Program counter(P.C.)   ii)Microcontroller   iii) Computer Network

Section V

a) What is terminals and how many types of terminals.

b) What is operating system and describe the types of O/S?

c) Write short notes on parallel processing.

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