ANNUAL EXAMINATION 2020

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

Question 1 (Unit I)
(a) Draw and explain the schematic diagram of CPU.
(b) What do you understand by Terminal? Explain various types of terminals in brief.
OR
(c) What is Microprocessor? Distinguish among 8088, 80286 and P-1microprocessor.
(d) Explain the various features of Server and Laptop 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 the role of cache memory in computer system? Explain write through and write back Cache memory in brief.
(b) What is Content Addressable Memory? Draw and explain its block diagram.
OR
(c) What do you understand by Virtual memory?
(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
(c) What are programmable and nonprogrammable ports?
(d) What is DMA controller? Describe Intel 8237.

Question 5 (Unit V)
(a) What do you understand by system software? Explain it in brief.
(b) Describe any two programming techniques with suitable examples.
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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