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DD-2715

B.Sc. (Part-II) EXAMINATION, 2020 COMPUTER SCIENCE

Paper First

(Computer Hardware)

Time: Three hours

Maximum Marks: 50

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

Unit-1

- 1.(a) Draw and explain major components of digital computer.
 - (b) Explain the following:
 - (i) Multiprocessing.
 - (ii) Software & Firmware.
 - (c) Explain word length and processing speed of computer.

Unit-2

- 2.(a) Explain Instruction word size with example.
 - (b) Explain fetch and execution operation of CPU.

[P.T.O.]

(c) What are Interrupt? Explain it.

Unit-3

- 3.(a) Explain primary memory and secondary memory.
 - (b) Explain the following:
 - (i) DACD
 - (ii) Optical Disk.
 - (c) Explain Memory controller and Bubble Memory.

Unit-4

- **4.**(a) Describe types of printer with example.
 - (b) Explain the working of I/O devices of Micro-Controller.
 - (c) Draw and explain I/O processor architecture.

Unit-5

- 5.(a) What are application packages? Explain it.
 - (b) Write and explain different shapes of flow chart design.
 - (c) Explain machine language and assembly language with their advantages and disadvantages.