Roll No......................   **Total No. of Sections   : 03**

                                     Total No. of Printed Pages : 03

Code No. : S-376

Annual Examination - 2019

B.Sc. Part - III

COMPUTER SCIENCE

Paper - I

COMPUTER HARDWARE

Max.Marks : 50

Time : 3 Hrs.   **Min.Marks : 17**

Note : Section 'A', containing 10 very short-answer-type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

Section - 'A'

Answer the following very short-answer-type questions in one or two sentences :   **(1 × 10=10)**

Q.1   Define microprocessor. Write the name of any two microprocessors.

Q.2   Write the difference between serial port and parallel port.

Q.3   What do you understand by interrupts?

Q.4   Write the purpose of providing registers in CPU.

Q.5   What is the difference between DOS and UNIX?

Q.6   Define disk controller.

Q.7   Differentiate virtual memory and cache memory.

Q.8   Define booting process.

P.T.O.

Q.9   What is trouble shooting?

Q.10   Write the name of any two important system files in windows.

Section - 'B'

Answer the following long answer type questins in word limit 150-200 :   (3 5=15)

Q.1   Explain inter-connecting components of micro-computer.

OR

Describe the register organization of 8088.

Q.2   Describe expansion slots for RAM.

OR

Explain video control through ANSI-SYS.

Q.3   Explain Miscellaneous service provided by the ROM-BIOS.

OR

Explain ROM-BIOS KEYBOARD service INT-16H.

Q.4   Explain memory allocation in DOS.

OR

Explain file handling in DOS. Write the steps for accessing files in DOS.

Q.5   What are filters? Explain the types of filters in DOS.

OR

Explain types of interrupt in DOS.

Section - 'C'

Answer the following long answer type questins in word limit 300-350 :   (5x5=25)

Q.1   Write note on Memory mapped I/O. Explain scratch pad segment and pointer.

OR

Explain the addressing of memory with diagram.

Q.2   What is CD-ROM? Explain the process of reading and writing data in CD-ROM.

OR

Explain video display of PC.

Q.3   Explain step by step process to install Windows operating system.

OR

Explain file structure of DOS and also explain DOS interrupts.

Q.4   Explain how to load, call, return and execute EXEC function.

OR

Explain the file organization in DOS.

Q.5   Explain interrupt vector table in PC.

OR

Write notes on Redirection of I/O under DOS and Networking features of Windows OS.

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