

Roll No.....

Total No. of Sections : 03

Total No. of Printed Pages : 03

Code No. : B-258(A)

Annual Examination - 2017

B.Sc. - II

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 : **(1x10=10)**

- Q.1 What is Bit and Byte?
- Q.2 Define SISD.
- Q.3 What is FPU?
- Q.4 Define the Accumulator.
- Q.5 Define the Semiconductor Memory.
- Q.6 What is MMU?
- Q.7 What is MICR?
- Q.8 Write down the name of any two line printers.

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- Q.9 Define the Stack.  
Q.10 Write the name of any two multi-user OS.

**Section - 'B'**

Answer the following short-answer-type questions with word limit  
150-200 : (3x5=15)

- Q.1 Define the Analog and Digital Computer.  
**OR**  
Describe the dumb, smart and intelligent terminals.
- Q.2 Explain instructions of INTEL 8085 microprocessor.  
**OR**  
Explain instruction cycle fetch and execute operation.
- Q.3 Describe the terminology of virtual memory in detail.  
**OR**  
Explain the magnetic bubble memory.
- Q.4 What is the port? Explain input and output port.  
**OR**  
Write a short note on microcontroller and its applications.
- Q.5 What is utility program? Explain its purpose.  
**OR**  
Write short notes on ML and HLL?

**Section - 'C'**

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

- Q.1 Describe the Flynn's classification of computers.

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**OR**

- What are the memory addressing capability of CPU and word length and processing speed of computers?
- Q.2 Draw and explain the structure of CPU organization.  
**OR**  
Describe the various addressing modes of INTEL 8085 with suitable examples.
- Q.3 What is major difference between Main Memory and Secondary Memory? Describe the purpose of Cache Memory in computer system.

**OR**

- What are static and dynamic RAMS? Discuss their merits and demerits.
- Q.4 What are the different types of printers? What is the difference between impact and non-impact printers?  
**OR**  
What are the I/O devices? Explain the I/O devices of microcontroller.
- Q.5 Explain various stages of a software development using proper examples.

**OR**

What is software? Describe different types of software.

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