CPU

C.

7

SARDAR PATEL UNIVERSITY **BCA (SEM-1) External Examination** Friday, 18th Nov 2016

US01CBCA02 - Computer Organization

Marks: 70 Time: 10:00a.m to 01:00p.m [10] Do as directed. Q.1 1. Where does a computer add and compare data? Floppy disk В. Hard disk Α. Memory chip D.

> 2 CPU does not perform the operation logic operation B. data transfer A.

all of above D. arithmetic operation C.

3 Processors of all computers, whether micro, mini or mainframe must have

Primary storage ALU B. Α. All of above D. Control unit

4 The 4-bit binary number 0111 represents -7 В. 15 Α.

-1 D. C. 7

A byte corresponds to B. 8 bits 4 bits Α. 32 bits D. 16 bits

C. ASCII equivalent of A is

67 B. Α. 66 65 D. C. 68

MIMD is A. Multiple Instruction Multiple Data

B. Multiple Items Multiple Data

C. Multiple Instruction Multiple Database

D. None of above

The Full form of RAM is.

B. Read and write memory A. Read only memory

C. Random access memory D. Really a memory

Which one is the input device 9

Scanner B. Printer Α.

none of them C. Plotter

Which printer gives the best result of printing 10

Laser printer B. A. Dot-matrix printer

none of these D. C. inkjet printer

Answer the following [Any ten] Q.2

1. Define : Hardware with examples

2. Define: Software with examples

3. List applications of computer

4. Draw the block diagram of computer

5. What is number system? List all number systems

6. Explain odd and eve parity

7. Explain 2's complement method with example.

8. Explain ASCII character code with example.

[20]

	 What is Instruction register? Define Stack addressing. Give two differences between input device and output 	
Q.3 A	1. $(110011101)_2 = (?)_{16}$ 2. $(345)_8 = (?)_{10}$ 3. $(9871)_{10} = (?)_2$	[06] [04]
В	Explain binary number system with example. OR	• -
Q.3 A	Draw the Block diagram of Computer and explain its functions.	[06]
В	Do as directed. 1. 100111.1000 + 111001.11100 2. 11100111.11 - 11111.01	[04]
Q.4 A	Explain storage representation method with example.	[06]
В	Write a short note on Unicode. OR	[04]
Q.4 A	Explain instruction execution cycle with Von Neumann machine	[06]
В	Construct Even parity hamming code for "C", where ASCII value of C = 67.	[04]
Q.5 A B	Write a short note on Secondary Memory? Write a note on pipeline Machine.	[06] [04]
	<u>OR</u>	
Q.5 A	Explain array processor with diagram	[06]
В	Explain the role of Registers in computer storage	[04]
Q.6 A	List all Addressing Technique and Explain any two in detail with examples.	[06]
В	Differentiate between line printer and inkjet printer. OR	[04]
Q.6 A . B	List input devices explain any two. Differentiate between dot-matrix and laser printer.	[06] [04]
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