[94] Seat No.:_____ No. of Printed Pages : 2

SARDAR PATEL UNIVERSITY
BCA EXAMINATION, I SEM

Date : 14th Nov 2019, Thursday
Session : Evening
Course No : US01CBCA25

Time : 02:00pm To 05:00pm
Sub: Fundamental of Computer Organization
Total marks : 70

Q – 1 Multiple Choice Question [10]

i) Where does a computer add and compare data?
a) Hard Disk b) Floppy Disk c) CPU d) Memory chip

ii) The ALU and CU jointly known as :
a) RAM b) ROM c) CPU d) None of Above

iii) Hexadecimal number C is equal to binary number
a) 1110 b) 1100 c) 1001 d) 1111

iv) The representation of 10 using Excess notation is _____ .
a) 11101101 b) 11001101 c) 10001010 d) 10110011

v) Extra bit added to a string bits to detect errors is known as _____.
a) Additional bit b) Correction bit c) Parity bit d) updation bit

vi) Array processor is referred as _____.
a) SISD b) SIMD c) MISD d) MIMD

vii) Which memory is permanent type memory?
a) ROM b) RAM c) EPROM d) EEPROM

viii) _____ addressing is used to initialize value of variable.
a) Direct b) Indirect c) Register d) None of these

ix) _____ addressing is also known as implicit addressing
a) Direct b) Stack c) Register d) None

x) Monitor is made up of
a) CRT b) CPU c) Key board d) None of these

Q – 2 Short Answer **attempt any ten (Each carry 2 marks)** [20]

i) Define Hardware and Software
ii) Perform subtraction of 0011010 - 001100
iii) Convert $(42A.1)_{16}$ into decimal number
iv) Explain signed magnitude method with example
v) Explain 1's complement method with example.
vi) Explain 2's complement method with example.
vii) Write note on floppy disk
viii) Explain Flash drive
ix) What do you mean by latency?
x) Define Immediate Addressing and Direct Addressing
xi) Define Indirect and Index Addressing.
xii) Differentiate Impact printer and Non-Impact Printer.

Q – 3 Draw the Block.diagram of Computer and explain its functions [10]

OR

Q – 3 Explain the generations of Computer. [10]

Q – 4 a) Explain ASCII Code [06]
b) Codeword received – 1011011, Assume even parity, state whether received codeword is correct or not. If it is wrong then locate the bit and correct it. [04]

OR

Q – 4 a) Explain UNI Code [06]
b) Find the Hamming Code for $(101)_{10}$ = using even parity. [04]

(PTO)

Q – 5	a)	What is Primary Memory? Explain different types of Primary memory.	[06]
	b)	Explain Hard Disk	[04]
		OR	
Q – 5	a)	What is Register? Explain any three types of registers used for various operations	[06]
	b)	Explain Pipelining	[04]
Q – 6	a)	List Various Input Devices and explain any two of them in detail.	[06]
	b)	Explain types of monitor.	[04]
		OR	
Q – 6	a)	List Various Output Devices and explain any two of them in detail.	[06]
	b)	Explain note on Mouse.	[04]