

**SARDAR PATEL UNIVERSITY**

BCA Semester-1 Examination, 2022

US01CBCA53 || FUNDAMENTALS OF COMPUTER ORGANIZATION

Time : 9.00 a.m. - 11.00 p.m. Date : 15-6-2022, Wednesday

Marks: 70

Q-1 Select the appropriate option for the following questions:

10

- 1) Which parts of the computer perform arithmetic calculations?
A. ALU
B. Logic bus
C. Registers
D. Input device
- 2) Which generation of computer developed using Transistor ?
A. First generation
B. Second generation
C. Third generation
D. Forth generation
- 3) The representation of -18 using 1's complement is _____.
A. 11101101
B. 10001010
C. 11001101
D. 10110011
- 4) ASCII equivalent of A is
A. 66
B. 68
C. 67
D. 65
- 5) In _____, multiple control unit share a common memory.
A. Array processor
B. Pipeline
C. Multiprocessor
D. None
- 6) Floppy disk is a _____.
A. Removable disk
B. Direct access disk
C. Permanent Disk
D. None of these
- 7) Which one is the input device ?
A. Printer
B. Plotter
C. Scanner
D. None of them
- 8) Monitor is made up of _____.
A. CRT
B. keyboard
C. CPU
D. None of them
- 9) The 4-bit binary number 0111 represents
A. 15
B. 7
C. -8
D. -1
- 10) The full form of CDROM _____.
A. Compact disk read only memory
B. Correct read ROM
C. Create direct ROM
D. None of them

Q-2 Tick (TRUE or FALSE) and Fill in the blanks.

08

- 1) Storage of 1 KB means the following number of bytes 1024. [TRUE/FALSE]
- 2) ASCII stands for America standard coded interchange information. [TRUE/FALSE]
- 3) Array processor is referred as MIMD. [TRUE/FALSE]
- 4) Dot matrix printer is an example of Drum printer. [TRUE/FALSE]

- 5) MSI stands for _____.
- 6) Extra bit added to a string of bits to detect errors is known as _____.
- 7) In pipeline a single instruction is divided in _____ stages.
- 8) _____ Printer gives the best result of printing.

Q-3 Give short answers of the following questions: (ANY TEN)

20

- 1) Define: Hardware with examples.
- 2) Explain first generation of computer.
- 3) List applications of computer.
- 4) Explain 2's complement method with example.
- 5) List steps of Instruction Execution cycle.
- 6) Explain signed magnitude method with example.
- 7) Explain Cache memory.
- 8) Write a note on floppy disk.
- 9) Write the significance of Accumulator (A) register.
- 10) What is Mouse?
- 11) What do you mean by inkjet printer?
- 12) What is keyboard?

Q-4 Give Long answers of the following questions: (ANY FOUR)

32

- 1) Draw the Block diagram of Computer and explain its functions.
- 2) List Number systems and explain them with proper examples.
- 3) Explain CPU organization with diagram.
- 4) Explain ASCII code.
- 5) Explain pipelining.
- 6) Explain Array processor with diagram.
- 7) Write a note on Scanner.
- 8) Explain Immediate and Direct addressing techniques with examples.