SEAT No._____

[111]

SARDAR PATEL UNIVERSITY
External Examination (CBCS) **(NC)**
B. Sc. (Computer Science) – 3rd - Semester
US03CCSC02: Computer Organization
1st January, Friday – 2022

Time: 02:00 pm to 04:00 pm   Total Marks: 70

Q-1   Select an appropriate option.   [10]

1.   Computer hardware refers to the _____ parts of a computer.
     (a) Logical   (b) Physical   (c) Data   (d) None of these

2.   OCR stands for _____.
     (a) Optical Character Recognition   (b) Opac Character Reader
     (c) Optical Character Reader   (d) None of above

3.   In Octal Number system, base is _____.
     (a) 8   (b) 7   (c) 9   (d) None of these

4.   Character code ASCII is _____
     (a) 7-bit code   (b) 9-bit code   (c) both a & b   (d) None of these

5.   In Hamming Code, parity bit 2 checks bits
     (a) 2,3,5,6,7,10   (b) 2,3,6,7,10,11   (c) 2,3,4,5,6,7   (d) None of these

6.   _____ points to the next instruction to be executed after finishing the current instruction.
     (a) Program counter   (b) Program counting
     (c) Instruction register   (d) None of these

7.   The _____ also known as auxiliary storage.
     (a) Primary storage   (b) Secondary storage
     (c) Virtual storage   (d) Fast storage

8.   SATA is a type of _____.
     (a) Pen drive   (b) Hard disk   (c) RAM   (d) Processor

9.   _____ is an input device.
     (a) Monitor   (b) Keyboard   (c) Printer   (d) All of these

10. _____ is a scheme in which the address specifies which memory word or register contains the operand.
     (a) Direct Addressing   (b) Indirect Addressing
     (c) Stack Addressing   (d) None of these

Page 1

[P.T.O]

Q-2 Fill in the blanks / True or False (08)

1. CPU stands for _____.
2. In Hexadecimal Number system, base is _____.
3. _____ has two or more CPUs sharing a common memory.
4. _____ performs operations such as mathematical and Boolean, to carry out the instruction.
5. DDR is a type of hard disk. (True / False)
6. CD's are considered as storage media. (True / False)
7. Full form of LCD is light clear display. (True / False)
8. TFT stands for Thin Film Transistor. (True / False)

Q-3 Answer the following questions. (Attempt any **TEN**) (20)

1. What is Computer?
2. Define the terms 'Hardware' and 'Software'.
3. What are the five basic operations performed by any Computer System?
4. What is signed and magnitude method?
5. What is Excess Notation?
6. What is Unicode?
7. What is Primary Memory?
8. Write the full form: (i) EPROM (ii) EEPROM.
9. What is cache memory?
10. Write the full form of CRT & TFT.
11. What is Scanner?
12. What is register addressing?

Q-4 Answer the following question. (Attempt any **FOUR**) (32)

1. Draw a block diagram of Basic organization of a Computer System and explain the functions of the various units.
2. Discuss: Applications of the Computer Systems
3. What is Hamming Code? Explain in brief with suitable example.
4. Write short note on Pipeline machine.
5. Write short note on 'Hard Disk'.
6. List the advantages and disadvantages of CD.
7. Discuss: 'Direct Addressing' and 'Indirect Addressing'.
8. Write short note on CRT and LCD monitor.

——————— X ———————