REV-01 SVS/48/53

COMPUTER SCIENCE SECOND SEMESTER COMPUTER HARDWARE AND ASSEMBLING SVS-210

В

2023/06

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

(Objective)

Time: 15 mins.

Marks: 10

Choose the correct answer from the following:

 $1 \times 10 = 10$

1. How to erase data in EPROM?

a. Using electrical signal

b. Using ultraviolet rays

c. Both

2. Voltage division rule is applicable to:

a. Series Circuitc. Both a & b

b. Parallel Circuit

d. All the above

d. None

3. Hybrid computer uses:

a. Digital signal

b. Analog signal

c. Both a & b

d. None

4. The full form of SMPS is:

a. Switched-made power supply

b. Switched-modification power supply

c. Switched-mode power supply

d. All of these

5. Which of the following communication mode is unidirectional?

a. Half-duplex

b. Full-duplex

c. Simplex

d. All of these

6. Which of the following is a volatile memory?

a. RAM

b. ROM

c. Both

d. None

7. CPU consists of:

a. ALU & Memory

b. ALU & Control Unit

c. Control Unit & Memory

d. All of these

8. Vacuum tube was used in:

a. 3rd generation of computer

b. 2nd generation of computer

c. 1st generation of computer

d. 5th generation of computer

9. The device that converts AC to DC is called:

a. Inverter

b. Transistor

c. Rectifier

d. Diode

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10. In which topology, each device has a dedicated point to point connection to a hub?
a. BUS
b. MESH
c. RING
d. STAR

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(<u>Descriptive</u>)

Marks: 25 Time: 1 hr. 15 mins. [Answer question no.1 & any two (2) from the rest] 5 1. Explain with the help of diagram the architecture of computer. 6+4=10 2. a) Two resistors of values 2Ω and 8Ω are connected in series across a series opposing voltage sources of values 12 V and 6 V. Compute: (a) Circuit current (b) Power supplied by the two batteries (c) Power dissipated in the two resistors. b) Differentiate between Half-duplex and Full-duplex mode. 3. Define Computer. What are the various types of computer? Explain 10 briefly. 4. What do you mean by Network? What are the various physical 10 topology in a network? Discuss briefly. 5. Write short notes on the following: 5+5=10 a) Half-Wave rectifier b) SMPS

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