Seat No. _____

M. Sc. (Electronics) (Sem. I) (CBCS) Examination

March - 2021

Computer Hardware : Paper - 4

Faculty Code : 003

Subject Code : 1151004

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

Instructions : (1) All questions carry equal marks.

(2) Figures on right hand side indicate marks.

1   Answer the following :   14

(1) What is a computer hardware ?

(2) Give the full form of DDR, POST, CMOS and MCC.

(3) What is super scalar execution ?

(4) What is the primary reason that DDR2 RAM is potentially faster than DDR RAM ?

(5) Mention the correct boot sequence for a PC.

(6) AGP stands for _____ and is an expansion of the _____ bus.

(7) Which variation of the PCI bus was specifically designed for laptops ?

2   Answer the following: 14

(1) Give answer as below abbreviation.

1GB = (?) MB, 1MB = (?) Bytes

(2) Briefly write on USB.

(3) Write full name of SIMM, DIMM, RIMM and AMD.

(4) What is roll of Address bus in a PC ?

(5) What sort of connector does a typical network card have ?

(6) What do registers provide for the CPU ?

(7) What is a CPU ?

3 Answer the following: **14**

(1) What are plugs, ports and jacks ? Explain in brief.

(2) Write a note on Power on self-test.

4 Answer the following: **14**

(1) Write a note on Read only memory.

(2) Write a note on parity and ECC in the RAM.

5 Answer the following: **14**

(1) List the types of package configuration of AMD Athlon and Pentium K5 CPU.

(2) List the types of connectors in the PC and explain any four connectors.

6 Answer the following: **14**

(1) Write about clock speed and multiplier of CPU.

(2) Write a note on microprocessor.

7 Answer the following: **14**

(1) Draw and explain Structure and Function of the Expansion Bus.

(2) Write a note on PCI slot.

8 Answer the following: **14**

(1) Write a note on direct memory access.

(2) Write a note on function of motherboard.

9 Answer the following: **14**

(1) Write a note on DB and RJ connectors.

(2) Briefly explain Register in the processor with suitable example.

10 Answer the following: **14**

(1) Briefly explain SDRAM and RDRAM.

(2) Give types of package configurations of an AMD Athlon thunderbird and Duron CPU.

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