



JBG-003-1153004 Seat No. _____

**M. Sc. (Electronics) (Sem. I) (CBCS)
(W.E.F. 2016) Examination**

December - 2019

Computer Hardware : Paper - IV

Faculty Code : 003

Subject Code : 1153004

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 : (Any Seven) 14

- (1) What do you plug into a three-row, 15-pin port?
- (2) What connector was designed to connect your PC to a high-end audio system?
- (3) What function does the external data bus have in the PC?
- (4) Give the full form of MIDI, PGA, BGA, and VGA.
- (5) What is super scalar execution?
- (6) What sort of connector does a typical network card have?
- (7) What is the size of the data bus and L 1 cache on a Core 2 Duo CPU?
- (8) Where does Windows store device drivers?
- (9) What is the term for the delay in the RAM's response to a request from the MCC?
- (10) What does BIOS provide for the computer?

2 Answer the following : (Any Two)

- (1) Explain input, output and storage device of the PC. 7
- (2) Write a note on power on self-test (POST) and CMOS. 7
- (3) Briefly explain Pentium II and Pentium III processor and give its package configuration. 7

- 3** Answer the following :
- (1) Write a note on HDMI, Sound and mouse connector of the PC. **7**
 - (2) Write in detail on address bus of the CPU. **7**
- OR**
- 3** Answer the following :
- (1) Write a note on clock speed and multiplier of the processor. **7**
 - (2) What is RAM? Discuss organizing way of DRAM. **7**
- 4** Answer the following :
- (1) What is a clock speed? Write about system clock of the CPU. **7**
 - (2) What is a cache memory? Explain in brief. **7**
- 5** Answer the following : (Any **Two**)
- (1) Give package configuration of AMD Athlon, Duron and Opteron CPU. **7**
 - (2) Write a note on USB, Rj and Audio connectors. **7**
 - (3) Write a brief note on Buffered/Registered DRAM. **7**
 - (4) Briefly explain Pentium D and AMD Sempron CPUs package Configuration. **7**
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