



**JAG-003-1275002**

Seat No. \_\_\_\_\_

**M. Sc. (ECI) (Sem. V) (CBCS) (W.E.F. 2016) Examination**

**November - 2019**

**Fundamental of Computer Hardware : Paper - 18**

**Faculty Code : 003**

**Subject Code : 1275002**

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 is a Computer Hardware ?
- (2) What sort of power connector does a floppy disk drive typically use ?
- (3) On Intel-based motherboards, which chip enables the CPU to interact with RAM ?
- (4) What voltages should the two hot wires on a Molex connector read ?
- (5) When installing an expansion card, which of these should you do ?
- (6) What does BIOS provide for the computer ?
- (7) Where does Windows store device drivers ?
- (8) Give the full form of BIOS, CMOS, PCI and MIDI.
- (9) What is super scalar execution ?
- (10) Fill the blanks for 1 KB = \_\_\_\_\_ bit and  
1 GB = \_\_\_\_\_ KB.

- 2** Answer the following : (any two)
- (1) Explain how the Personal Computer works ? 7
  - (2) List out the internal parts of the system unit. 7  
Explain each part in brief.
  - (3) Sketch and Discuss Structure and Function of the 7  
Expansion Bus.
- 3** Answer the following :
- (1) What is ROM ? Write a brief note on ROM. 7
  - (2) What is a motherboard ? List out three variable and 7  
define interrelated characteristics in modern  
motherboard. Discuss them in brief.
- OR**
- 3** Answer the following :
- (1) Briefly explain Intel Celeron and Pentium pro 7  
processor and give its package configuration.
  - (2) What is a RAM ? Discuss organizing way of DRAM. 7
- 4** Answer the following :
- (1) Write a note on USB, Network and Sound connectors. 7
  - (2) What is a cache memory ? Explain in brief. 7
- 5** Answer the following : (any two)
- (1) Describe the detail about powering the PC. 7
  - (2) What is a clock speed ? Write about system clock 7  
of the CPU.
  - (3) Write a note on various external connection required 7  
for peripheral connection.
  - (4) How keyboard talking to the CPU ? Explain with 7  
block Diagram.