

AQ - 1010

**Third Semester M.Sc. - II (CBCS Pattern)
Examination**

ELECTRONICS

Paper - 3 ELE - 4

Computer Hardware and Interfacing

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

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- Note :** (1) All questions are compulsory.
(2) Draw necessary sketches wherever required.

EITHER

1. (a) Discuss memory Technique incorporated almost in all systems. 4
(b) Explain features of architectural performance. 8
(c) Draw and explain essential memory concepts. 4

OR

- (p) Explain the difference between traditional CPU and modern CPU. 8
(q) What are the memory modules ? 4
(r) Explain the factors which are more effective in memory consideration. 4

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EITHER

2. (a) Explain motherboards with their socket and slots. 8
- (b) Explain the modes of power management. 4
- (c) Discuss CMOS. 4

OR

- (p) Explain power supply considering the concept of switching regulations. 8
- (q) Draw and explain motherboard BIOS. 4
- (r) How the potential power problems can be identified ? 4

EITHER

3. (a) Explain hard drive and sector layouts in it. 8
- (b) Explain CD ROM drive. 8

OR

- (p) Explain Floppy drive with magnetic recording principles. 8
- (q) Explain DVD-ROM drive. 8

EITHER

4. (a) Explain keyboard and state types of key switches. 4
- (b) Explain Direct-X with all features. 4
- (c) Draw and explain video Adapters. 8

OR

- (p) Explain graphic (3D) accelerator. 8
- (q) Explain serial port and their signals. 4
- (r) What is sound board ? 4

EITHER

5. (a) Explain expansion buses. 8
- (b) Explain plug and play device. 8

OR

- (p) Explain small computer system interface. 8
- (q) Explain USB architecture. 8

