

Branch - MATHEMATICS WITH COMPUTER APPLICATIONS

PC HARDWARE

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 What is a Pentium?
- 2 Draw the diagram of game port connector and singles.
- 3 Write short notes on dynamic RAM.
- 4 What is cluster?
- 5 Define the video CD.
- 6 What are the mouse signals in the 9 pin D connector?
- 7 What is raster scanning?
- 8 List out the dot matrix printer sub-assemblies.
- 9 What is trouble shooting?-
- 10 What is repeater?

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a What is BOIS? and its example.  
OR  
b With neat diagram of serial port connector & signal and explain.
- 12 a What are the various memory package? and explain.  
OR  
b Discuss about the floppy disk and hard disk.
- 13 a Give the installation procedure and setup for a IDE CD-ROM drive.  
OR  
b Explain the principle of operation of a mouse with a neat diagram.
- 14 a Draw the connector pin diagram of a VGA card and explain.  
OR  
b Explain the operation of Laser printer.
- 15 a Discuss about the trouble shooting floppy disk drives.  
OR  
b What is internet? What are its different uses? \*

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 - Explain about functional blocks of motherboard.
- 17 Draw the function block diagram of floppy disk controller and explain each blocks.
- 18 Discuss the principle of operation of a scanner.
- 19 List out the installation procedure of an ink cartridge in inkjet printers.
- 20 What are the components of a network? Explain each briefly.