

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2019
(Fourth Semester)

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 are the I/O ports?
- 2 Expand BIOS.
- 3 Define DRAM.
- 4 Expand SIP.
- 5 Define Sound Blaster.
- 6 List out the mouse signals.
- 7 Write the CGA.
- 8 What is meant by plotter?
- 9 List out any two motherboard servicing techniques.
- 10 Define Internet.

SECTION - B (25 Marks!)

Answer **ALL** Questions

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

- 11 a Explain the Interface cards.
OR
b Draw the block diagram of EISA bus card and explain the each block.
- 12 a Write short notes on cache memory.
OR
b Explain the basic operation of magnetic storage.
- 13 a Explain the operation of CD-ROM Drive.
OR
b Explain the principle of operation of keyboard.
- 14 a Explain the operation of VGA Monitor.
OR
b Explain the principle of operation of Ink-Jet Printer.
- 15 a List out the keyboard trouble shooting and servicing techniques.
OR
Discuss about the need for networking.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Draw the block diagram of switched mode power supply and explain.
- 17 What are the sub-assemblies of HDD? And explain.
- 18 Explain the working principle of scanner.
- 19 Explain the working principle of Dot Matrix printer.
- 20 Describe the operation of MODEM.