

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2018
(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 is Chipset ?
- 2 State the functions of BIOS.
- 3 Mention any two names of expansion slots
- 4 What is IDE ?
- 5 Give any two sensors in FDD.
- 6 How many motors in CD-ROM? Name them.
- 7 Draw the Pin diagram of VGA port.
- 8 Name the different kinds of printers in the market?
- 9 What is PS/2 ?
- 10 What is POST?

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a State the different types of Motherboard.
OR
b Sketch the block diagram of SMPS and explain its working.
- 12 a Discuss the fundamentals of magnetic storage.
OR
b Write the operation of Hard Disk Drive.
- 13 a Explain the operation of Sound Blaster Card.
OR
b Brief the working of Scanner.
- 14 a Write a note on video Basics.
OR
b Explain the operation of Dot Matrix printer.
- 15 a Explain the working principle of Internet.
OR
b Illustrate the operation of MODEM.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Describe the functional block diagram of a PC.
- 17 Discuss the PC memory organization in detail.
- 18 Explain the working of CD-ROM and give its types.
- 19 With neat diagram, explain the operation of Laser printer.
- 20 State and explain, how you would troubleshoot a faulty motherboard.