

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**MSc (SS) DEGREE EXAMINATION DECEMBER 2025
(Ninth Semester)**

Branch – **SOFTWARE SYSTEMS (five years integrated)**

**GENERIC ELECTIVE COURSE : PC HARDWARE AND TROUBLE
SHOOTING**

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks $(5 \times 1 = 5)$

1. Which component of the motherboard is responsible for connecting the CPU, memory, and other hardware devices?
i) BIOS ii) Chipset iii) Heat sink iv) Power supply

2. What should be done before installing or removing a memory module from the motherboard?
i) Turn off the monitor only ii) Keep the computer running
iii) Turn off the power and unplug the computer iv) Remove the CPU first

3. Which type of mouse uses a light-emitting diode (LED) and an optical sensor to detect movement?
i) Mechanical mouse ii) Optical mouse
iii) Trackball mouse iv) Laser mouse

4. Which type of SMPS converts AC input voltage into DC output voltage?
i) DC to DC Converter ii) AC to DC Converter
iii) DC to AC Converter iv) AC to AC Converter

5. What is the first step before replacing a laptop battery?
i) Turn on the laptop
ii) Disconnect the power adapter and shut down the laptop
iii) Remove the keyboard
iv) Press the power button continuously

SECTION - B (15 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks $(5 \times 3 = 15)$

6. (a) Narrate the Structure of Computer Hardware.
(or)
(b) Discuss the Power Supply Connectors with diagram.

7. (a) Give the steps to Install the CPU.
(or)
(b) List the Hard Disk Common Problems in PC.

8. (a) Note Keyboard Interface with neat diagram.
(or)
(b) Elucidate the types of mouse.

9. (a) Describe the LCD Monitor with neat diagram.
(or)
(b) List the importance of SMPS.

10. (a) Justify the importance of replacing the battery in Laptops.
(or)
(b) Explain the various Troubleshooting methods.

Cont...

SECTION - B (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks $(5 \times 6 = 30)$

11. (a) Elaborate the Components of Motherboard.
(or)
(b) Explain in detail about LAN system.
12. (a) Narrate the Processor Common Problems and Solutions.
(or)
(b) Write the Steps to Install the Hard Disk Drive.
13. (a) Discuss the types of Keyboards.
(or)
(b) Justify the points to solve the Common issues in Mouse.
14. (a) Elaborate LED Monitor with diagram.
(or)
(b) Describe the working of UPS.
15. (a) Outline the points to Dismantle the Laptop.
(or)
(b) Points to replace the memory in Laptop.

Z-Z-Z END