

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc(SS) DEGREE EXAMINATION DECEMBER 2023
(Ninth Semester)

Branch – SOFTWARE SYSTEM (Five Years Integrated)

PC HARDWARE AND TROUBLESHOOTING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 Which is referred to the brain of computer?
(i) Processor (ii) Hard Disk
(iii) Random Access Memory (iv) Read Only Memory
- 2 What is the full form of BIOS?
(i) Binary Input Output System (ii) Bus input Output System
(iii) Basic Input Output System (iv) Basic Internal Operating System
- 3 Which of the following memories must be refreshed many times per second?
(i) ROM (ii) EPROM
(iii) Dynamic RAM (iv) Static RAM
- 4 What is meant by CPU?
(i) Code Processing Unit (ii) Computer Performance Unit
(iii) Complex Performance Unit (iv) Central Processing Unit
- 5 Which keys allows user to enter frequently used operations in a single key stroke?
(i) Function Keys (ii) Cursor Control Keys
(iii) Control Keys (iv) Alternate Keys
- 6 Which is an essential part of computer mouse?
(i) Motherboard (ii) CPU
(iii) Hardware (iv) Software
- 7 Choose the correct expansion of UPS.
(i) Uniform Power Supply (ii) Uninterruptible Power Supply
(iii) Universal Power Supply (iv) Unconditional Power Supply
- 8 Indicate the full form of SMPS.
(i) Standard Mode Power Supply
(ii) Service Mode Power Supply
(iii) Self Mode Power Supply
(iv) Switched Mode Power Supply
- 9 Which motherboard form factor uses one 20 pin connector?
(i) AT (ii) ATX
(iii) Baby AT (iv) Tower
- 10 Choose the best connector to connect the mouse to the system.
(i) SATA (ii) PS/2
(iii) VGA (iv) HDMI

Cont...

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 5 = 25)

- 11 a Sketch with neat diagram explain about power supply connectors.
OR
b Discuss in details about motherboard components.
- 12 a Show the common problems and solutions of hard disk drive.
OR
b Explain in details about CPU overheating issues.
- 13 a Solve the common problems and solutions of mouse.
OR
b Classify the different types and features of keyboard.
- 14 a Determine the different types and working functions of UPS.
OR
b Discuss in details about computer power supply units.
- 15 a Show the procedures for replacement of optical drive.
OR
b Explain in details about laptop features.

SECTION -C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 8 = 40)
(Q. No 16 is Compulsory)

- 16 Compare the important features between Laptop and Server Computers.
- 17 a Categorize and explain about different types of computer memories.
OR
b Discuss in details about CPU installation and uninstallation procedures.
- 18 a Classify the types of mouse and explain its working functions.
OR
b Design the keyboard interfacing techniques with suitable diagrams.
- 19 a Construct the steps for SMPS maintaining and troubleshooting methods.
OR
b Differentiate between the details about LCD and LED monitors.
- 20 a Recommend the suitable procedures for replacement of laptop battery and memory.
OR
b Solve the common problems while troubleshooting and maintaining laptops.

Z-Z-Z

END