

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem.-3)
PC ASSEMBLY & TROUBLESHOOTING

Subject Code : UGCA-1919

M.Code : 78185

Date of Examination : 25-06-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

SECTION-A

- 1. Write briefly :**
- a) What is the purpose of a north-bridge and south-bridge on PC motherboard?
 - b) What is a HW interface port?
 - c) Define the terms PC-AT, PC-XT and give their origin in personal computing devices.
 - d) Define and differentiate personal computer, mini-computer, main-frame and super computers.
 - e) What is BIOS and discuss different types of BIOS?
 - f) What are inputs and output hardware ports and their applications?
 - g) What is hardware virtualization? Justify with example.
 - h) What do you mean by POST and booting of a system?
 - i) Differentiate by working of line printers, dot-matrix, inkjet and LaserJet printers.
 - j) What is the difference between in a LaserJet printer and a flatbed scanner?

SECTION-B

2. Define Operating System. Give introduction of different versions of Windows for PCs.
3. What is a Master Boot Record (MBR), Discuss its working and importance? How it is used in Windows 10 and 11 operating systems?
4. How an HDD is partitioned and why? Discuss and explain the disk partitioning process. How many primary disk drives required installing an operating system?
5. What do you mean by utility software? How these are different than device drivers? How HP printers and scanner drivers are installed if not provided with the respective device?
6. What is a motherboard? What is the main difference between desktop and laptop motherboards? Discuss main I/O ports and interface controllers on a motherboard.
7. Give introduction of 8085 μ Processor. Compare it with other intel based 32-bit and 64-bit processors with main features of each.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.