

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**M.SC(IT)- INTEGRATED – SEMESTER II- EXAMINATION –SUMMER-2025**

**Subject Code: 1320505****Date: 28/05/2025****Subject Name: Introduction of Computer Hardware & Peripherals****Time:10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

		Marks	
<b>Q.1</b>	(a) Discuss diagnostic software in brief.	<b>03</b>	
	(b) Differentiate between software and hardware.	<b>04</b>	
	(c) List and explain different types of computer.	<b>07</b>	
<b>Q.2</b>	(a) Discuss the different types of printers in brief.	<b>03</b>	
	(b) Differentiate between hard disk drive and floppy disk drive.	<b>04</b>	
	(c) Discuss the features and differences between Windows XP, Vista, and Windows 7 operating systems.	<b>07</b>	
<b>OR</b>			
<b>Q.3</b>	(c) List and explain different types of computer ports.	<b>07</b>	
	(a) Describe a method for diagnosing issues with a mouse.	<b>03</b>	
	(b) Describe how the control panel are used for computer maintenance.	<b>04</b>	
<b>Q.3</b>	(c) Discuss the troubleshooting process for network-related issues.	<b>07</b>	
	<b>OR</b>		
	(a) Describe a method for diagnosing issues with a keyboard.	<b>03</b>	
<b>Q.3</b>	(b) Describe how the system tools are used for computer maintenance.	<b>04</b>	
	(c) Explain the steps for hardware troubleshooting and the tools used for diagnosis.	<b>07</b>	
	<b>Q.4</b>	(a) What is BIOS? Describe the role of BIOS in brief.	<b>03</b>
(b) Differentiate between SRAM and DRAM.		<b>04</b>	
(c) Explain the difference between CISC and RISC microprocessor architectures.		<b>07</b>	
<b>OR</b>			
<b>Q.4</b>	(a) What is SMPS? Describe the role of SMPS in brief.	<b>03</b>	
	(b) Explain dynamic random access memory in detail.	<b>04</b>	
	(c) What are the components of a motherboard? Describe their functions.	<b>07</b>	
<b>Q.5</b>	(a) Explain Master Boot Record.	<b>03</b>	
	(b) Explain NTFS file system in brief.	<b>04</b>	
	(c) Discuss the steps involved in partitioning a hard drive.	<b>07</b>	

**OR**

- Q.5** (a) Discuss master-slave drives in brief. **03**
- (b) Explain FAT file system in brief. **04**
- (c) What is input-output device? Explain the role of input-output device in computer system with suitable example. **07**

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