

GUJARAT TECHNOLOGICAL UNIVERSITY
M.SC(IT)- INTEGRATED– SEMESTER II- EXAMINATION –SUMMER-2024

Subject Code: 1320505**Date: 16/05/2024****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.

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| Q.1 | (a) Differentiate between software and hardware. | 03 |
| | (b) Discuss the importance of operating systems in managing computer resources. | 04 |
| | (c) Define a computer. Explain the different types of computers. | 07 |
| Q.2 | (a) What is the purpose of printer? List various types of printers. | 03 |
| | (b) Explain the basic steps involved in hardware troubleshooting. | 04 |
| | (c) Explain different System tools. | 07 |
| OR | | |
| | (c) What is computer hardware? List and explain the functions of various computer ports. | 07 |
| Q.3 | (a) Discuss the procedure for diagnosing software. | 03 |
| | (b) Explain SRAM in brief. | 04 |
| | (c) Explain procedure to troubleshoot the following devices: Keyboard, Mouse, Monitor. | 07 |
| OR | | |
| Q.3 | (a) Explain CMOS in detail. | 03 |
| | (b) Explain DRAM in brief. | 04 |
| | (c) Describe the control panel of the windows XP. | 07 |
| Q.4 | (a) Explain floppy disk in brief. | 03 |
| | (b) Define BIOS. Explain different functions of the BIOS. | 04 |
| | (c) Define microprocessor. Differentiate between CISC and RISC architectures. | 07 |
| OR | | |
| Q.4 | (a) Explain Hard disk in brief. | 03 |
| | (b) Explain the purpose of SMPS in detail. | 04 |
| | (c) Discuss the evolution of the Pentium series of microprocessors from P1 to Core i7. | 07 |
| Q.5 | (a) Discuss data recovery in brief. | 03 |
| | (b) Describe the equipment required to build a PC from scratch. | 04 |
| | (c) Explain NTFS and FAT file systems in brief. | 07 |
| OR | | |
| Q.5 | (a) Discuss master boot record in brief. | 03 |
| | (b) Discuss master and slave drives. | 04 |
| | (c) Explain the different types of file systems in brief. | 07 |
