

Regular/Scholarship/Back Exam – 2082 Phagun/Chaitra

Program : Diploma in Information Technology

Full Marks: 40

Year/ Part : II/I (2022)

Pass Marks: 16

Subject : PC Troubleshoot and Maintenance

Time: 1½ hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt any FIVE Questions.

1. a) Define troubleshooting. Discuss common troubleshooting technique. (1+2)
b) Describe types of processor. (5)
2. Explain the memory unit of computer system with its types. (8)
3. a) Describe the working principle of SMPS and its role in a computer system. (4)
b) Explain the differences between impact and non-impact printers. (4)
4. a) Describe different types of monitor with their features. (4)
b) How do you protect your computer from viruses? (4)
5. a) Discuss the importance of cooling and ventilation in preventing system overheating. (4)
b) Explain backup and disaster recovery. (4)
6. a) Describe the parts of motherboard. (5)
b) Define the following: (3)
 - i) Switch
 - ii) Light pen
 - iii) Drive bay

Good Luck !

Regular/Back/Scholarship Exam - 2081/2082 Chaitra/Baishakh

Program : Diploma in Information Technology

Full Marks: 40

Year/ Part : II/I (2022)

Pass Marks: 16

Subject : PC Troubleshoot and Maintenance

Time: 1½ hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt any FOUR questions.

1. a) Define troubleshoot and troubleshooting techniques. Write the concept of form factor in system case. [3+2]
b) Explain the working principle of SMPS. [5]
2. a) List out the different parts of motherboard. [4]
b) Explain the differences between single core and multi core processors. [4]
c) Define input devices with example. [2]
3. a) Explain the structure of hard disk in brief. [5]
b) Explain different types of primary storage devices. [5]
4. a) Write the importance of cooling and ventilation in computer system. Why is preventive maintenance important for system performance? [2+4]
b) Write a brief note on data loss risks and ways to minimize them. [4]
5. a) Differentiate between impact and non-impact printers. [4]
b) Write short notes on (**any TWO**) [2×3]
 - i) UPS
 - ii) Virus detection and protection
 - iii) LCD display
 - iv) BIOS

Good Luck !

Regular/Back/Scholarship Exam-2080/2081, Chaitra/Baishakh

Program : Diploma in IT Engineering

Full Marks: 40

Year/ Part : II/I (2022)

Pass Marks: 16

Subject : PC Troubleshoot & Maintenance

Time: 1 hr. 30 min.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt Any Four Questions.

1. Explain in detail the working principle of SMPS. Define multi-core processor with examples. **[5+5]**
2. What is secondary memory? Explain different types of secondary memory with suitable examples. **[2+8]**
3. Differentiate between Impact and Non-impact printer. List some general steps to troubleshoot common printer problems. **[5+5]**
4. Define Input devices with example. List some steps to troubleshoot basic input devices. **[4+6]**
5. Write short notes on : (**Any Two**) **[2x5=10]**
 - a) UPS
 - b) BIOS
 - c) Monitors

Good Luck !

Program : Diploma in IT Engineering

Full Marks: 40

Year/ Part : II/I (2022)

Pass Marks: 16

Subject : PC Troubleshoot and Maintenance

Time: 1½ hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt Any Four questions.

1. Define troubleshoot and troubleshooting technique. Also, explain the block diagram of SMPS in brief. **[4+6]**
2. What is secondary memory? Differentiate between RAM and ROM. **[4+6]**
3. a) Write and explain different parts of motherboard. Also, write the steps to troubleshoot BIOS problem in motherboard. **[3+3]**
b) Explain different types of processors in brief. **[4]**
4. Describe the preventive maintenance for system care. Explain in brief about backup and disaster recovery. **[5+5]**
5. Write short notes on: (**any Two**) **[2×5=10]**
 - a) Hard disk
 - b) Steps to troubleshoot common printer problem
 - c) Working principle of UPS
 - d) System case

Good Luck !