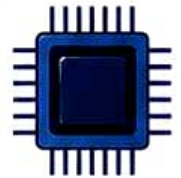
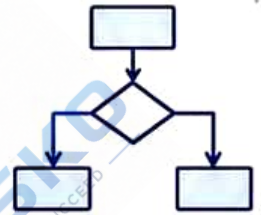


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Sample Paper

EXAM SAMPLE PAPER

-  Section A – Short Answer Questions (Attempt all)
-  Section B – Long Answer Questions (Attempt any two)
-  Section C – Short Answer Questions (Attempt all)
-  Section D – Long Answer Questions (Attempt any two)
-  Section E – Short Answer Questions (Attempt all)

Note: Question pattern may vary as per university guidelines.

DATA STRUCTURES

ALGORITHMS

COMPUTER NETWORKS

DATABASE SYSTEMS



Semester I – Fundamentals of Computer

Sample Paper – 1 (Pattern A)

Time: 2 Hours

Maximum Marks: 30

Instructions:

1. **Question No. 1 is compulsory.**
2. **Draw neat, well-labelled diagrams wherever necessary.**
3. **Students may use various colours to signify answers.**

Q1. Write answers in one or two lines and solve **any six**.

- i) What is a Computer?
- ii) Write any two characteristics of a computer.
- iii) What is Cache Memory?
- iv) Expand SSD.
- v) Name any two input devices.
- vi) What is an Operating System?
- vii) What is Booting?
- viii) Name any two generations of computers.

Q2. Answer in short **any two** of the following(3 marks each.)

- A) Explain the uses of computers in education, banking and business.
- B) Explain the characteristics of a computer.
- C) Describe the generations of computers.
- D) Draw the block diagram of a computer and explain the function of ALU.

Q3. Explain in detail **any one** of the following(6 marks each.)

E) Explain Primary Memory. Describe RAM, ROM and the different types of ROM with suitable examples.

F) Explain Secondary Storage Devices. Compare Hard Disk, SSD and Pen Drive with suitable examples.

Q4. Answer in short **any two** of the following(3 marks each.)

A) Explain the functions of a keyboard.

B) Differentiate between LCD and LED monitors.

C) What are impact and non-impact printers? Give suitable examples.

D) Explain the role of a modem in computer communication.

Q5. Explain in detail **any one** of the following(6 marks each.)

E) Define an Operating System. Explain its functions with suitable examples.

F) Explain the types of Operating Systems. Discuss Batch, Multiprogramming, Time Sharing, Online Real Time and Distributed Operating Systems.

Sample Paper – 2 (Pattern B)

Time: 2 Hours

Maximum Marks: 30

Instructions:

1. Question No. 1 is compulsory.
2. Draw neat, well-labelled diagrams wherever necessary.
3. Students may use various colours to signify answers.

Q1. Write answers in one or two lines and solve **any six**.

- i) What is the full form of CPU?
- ii) Define ROM.
- iii) What is the function of Cache Memory?
- iv) Name any two output devices.
- v) What is an SSD?
- vi) Define an Operating System.
- vii) What is the purpose of a modem?
- viii) Write any two examples of Operating Systems.

Q2. Explain in detail **any one** of the following(6 marks each.)

- E) Explain the history of computers and describe all five generations of computers with their technologies and characteristics.
- F) Draw a neat block diagram of a computer and explain the functions of each component in detail.

Q3. Answer in short **any two** of the following(3 marks each.)

- A) Differentiate between RAM and ROM.
- B) Explain the types of ROM.
- C) Compare HDD and SSD.
- D) Explain the advantages of Pen Drive as a storage device.

Q4. Explain in detail **any one** of the following(6 marks each.)

E) Explain various input and output devices with suitable examples.

F) Explain the types of printers. Differentiate between Impact and Non-Impact printers with suitable examples.

Q5. Answer in short **any two** of the following(3 marks each.)

A) Define Operating System and write its importance.

B) Explain Batch Operating System.

C) Differentiate between Multiprogramming and Time Sharing Operating Systems.

D) Explain the Booting Process.

Sample Paper – 3 (Pattern C)

Time: 2 Hours

Maximum Marks: 30

Instructions:

1. Question No. 1 is compulsory.
2. Draw neat, well-labelled diagrams wherever necessary.
3. Students may use various colours to signify answers.

Q1. Write answers in one or two lines and solve **any six**.

- i) Define a Computer.
- ii) What is the full form of ROM?
- iii) State any two applications of computers.
- iv) What is Primary Memory?
- v) Name any two output devices.
- vi) Define Booting.
- vii) Expand LCD.
- viii) What is an Input Device?

Q2. Explain in detail **any one** of the following(6 marks each.)

E) Explain the characteristics, applications and generations of computers with suitable examples.

F) Draw a neat block diagram of a computer and explain the functions of Input Unit, CPU, Memory Unit and Output Unit.

Q3. Explain in detail **any one** of the following(6 marks each.)

E) Explain Primary Memory. Differentiate between RAM and ROM. Describe the different types of ROM.

F) Explain Secondary Storage Devices. Compare Hard Disk, SSD and Pen Drive with suitable examples.

Q4. Answer in short **any two** of the following(3 marks each.)

- A) Explain the functions of a Keyboard.
- B) What is a Scanner? State its applications.
- C) Differentiate between Impact and Non-Impact Printers.
- D) Explain the purpose of a Modem

Q5. Answer in short **any two** of the following(3 marks each.)

- A) Define Operating System. Write any three functions of an Operating System.
- B) Explain Batch Operating System.
- C) Differentiate between Time Sharing Operating System and Distributed Operating System.
- D) Explain the Booting Process.

Sample Paper 4 – (Pattern D)

Time: 2 Hours

Maximum Marks: 30

Instructions:

1. Question No. 1 is compulsory.
2. Draw neat, well-labelled diagrams wherever necessary.
3. Students may use various colours to signify answers.

Q1. Write answers in one or two lines and solve **any six**.

- i) What is a Computer?
- ii) Name any two characteristics of a computer.
- iii) Expand HDD.
- iv) What is RAM?
- v) Name any two types of printers.
- vi) What is a Touch Screen?
- vii) Define Operating System.
- viii) What is a Distributed Operating System?

Q2. Answer in short **any two** of the following. (3 Marks Each)

- A) Explain the history of computers.
- B) Write a note on the applications of computers.
- C) Explain the characteristics of a computer.
- D) State the functions of the Control Unit (CU) and Arithmetic Logic Unit (ALU).

Q3. Answer in short **any two** of the following. (3 Marks Each)

- A) What is Primary Memory? Explain its types.
- B) Differentiate between RAM and Cache Memory.
- C) Compare Hard Disk and SSD.
- D) Explain the uses of a Pen Drive.

Q4. Explain in detail **any one** of the following. (6 Marks Each)

- E) Explain various Input Devices with suitable examples.
- F) Explain various Output Devices. Differentiate between Impact and Non-Impact Printers with suitable examples.

Q5. Explain in detail **any one** of the following. (6 Marks Each)

- E) Define Operating System. Explain its functions and importance with suitable examples.
- F) Explain the different types of Operating Systems. Discuss Batch Processing, Multiprogramming, Time Sharing, Online Real Time and Distributed Operating Systems.