

PAPER - I

COMPUTER FUNDAMENTALS

Section - 'A'

Answer the following Very short-answer-type questions in one or two sentences:

- Q1. What is word length?
- Q2. What is Multiprogramming system?
- Q3. What is microprocessor?
- Q4. Explain Instruction flow.
- Q5. Define Virtual memory.
- Q6. Explain MMU.
- Q7. Write any 4 printers name.
- Q8. What is USB?
- Q9. Explain HLL.
- Q10. What is UBUNTU?

Section - 'B'

Answer the following short answer type questions in word limit 150-200:

- Q1. Write major components of Digital Computer.

OR

Explain Flynn's classification of Computer.

- Q2. Explain CPU organisation.

OR

Explain instruction cycle, fetch & execute operation.

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OR

Explain conditional directives in 'C'.

Q.3. What do you mean by MMU?

OR

Explain different types of memory.

Q.4. Explain any five Input devices.

OR

Explain any five Output devices.

Q.5. What are the different languages of computer with its definition?

OR
What do you mean by operating system & its different types?

Section - 'c'

Long type Questions.

Explain in brief -

a) Hardware / software

c) word length, processing speed of computers.

b) Computer Network

OR

a) Dumb, smart & Intelligent terminals

b) Digital and Analog Computers.

c) Computer Flow & Data flow Computers.

Explain the various types of addressing modes, which are usually provided in a microprocessor.

OR

Draw and Explain Timing diagram for memory for 8085.

What are the different types of magnetic memory?

OR

What are STATIC and Dynamic RAM? explain in brief.

Explain stack, subroutine, debugging of program.

What do you understand by CRT Terminal? Discuss the working principle of a CRT display unit. What is Raster scan & vector scan method of CRT display?

OR

What is DMA controller and interrupt controller? Describe intel 8085.

Q5. What is the difference between a programming language and an Application Package, in brief with example.

OR

Explain in brief -

- a) Multiprogramming
- b) Multituser (Time Sharing)
- c) Multitasking System.
- d) Subroutines & macros.

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Q6) Explain preprocessor directives.
OR

Explain conditional directives in 'C'.