

**BCA - 103 Fundamentals of Information Technology
Question Bank**

UNIT I

Questions carrying two marks

1. Define reliability and versatility.
2. What are first generation computers?
3. What are second generation computers?
4. What are third generation computers ?
5. What are fourth generation computers ?
- 6 . What are fifth generation computers ?
7. What are Mega Chips ?
8. What is an Expert system ?
9. What is parallel processing ?
10. What is a micro computer ?
11. What is a mini computer ?
12. What is a mainframe computer ?
13. What is a super computer ?
14. What are registers ?
15. What is system bus ? Name its three logical units.
16. Differentiate RAM from ROM.
17. Differentiate a bit and byte.
18. What do you mean by virtual memory ?
19. State any 2 differences between SRAM and DRAM

Questions carrying 3-4 marks

1. Give the characteristics of first generation computers.
2. Give the characteristics of second generation computers.
3. Give the characteristics of third generation computers.
4. Give the characteristics of fourth generation computers.
5. Give the characteristics of fifth generation computers.
6. Write a note on Mainframes.
7. Write a note on Super computers.
8. Write a note on Registers.
9. Write a note on Control unit.
10. Write a note on Main Memory.
11. What is cache memory ? How do they speed up the
12. memory retrieval process?
13. Write a note on DMA.
14. Explain memory hierarchy with a neat diagram.
15. Write a note on RAM.
16. Explain the various types of ROM.
17. Discuss RAM, ROM and CPU interaction.

Long answer Questions (5-8 marks)

1. State and explain any six characteristics of computers.
2. Explain the evolution of computers.
3. Explain the classification of computers.
4. Explain the components of a computer system.
5. Give the application of computers in any six areas.

6. Explain the three main subsystems of CPU.
7. Explain Cache memory and its 3 levels.
8. Explain how the communication between various units of a computer takes place.

UNIT II

Questions carrying two marks

1. What is an input device? Give examples
2. What is an output device? Give examples
3. What are the importance of an input device?
4. What do you mean by QWERTY layout?
5. What is a pointing device? What are the common types of pointing devices available?
6. What is a touch screen? What are its different components?
7. What are the purposes of a light pen?
8. What are the purposes of a speech recognition device?
9. What are the different types of scanners?
10. What are the benefits of OCR?
11. What are the benefits of OMR over OCR?
12. What is an output?
13. Explain the different forms of output?
14. What is a hardcopy output device? Give example
15. What is a softcopy output device? Give example
16. What is an output device? Give examples
17. What are the categories of printers? Explain
18. Differentiate impact and non-impact printers
19. What is an impact printer? Give any three examples
20. What is a non-impact printer? Give example
21. What is a plotter? What are the different types of plotters?
22. Define Resolution
23. Define Dot Pitch
24. Define Refresh Rate
25. Expand LCD, MICR
26. Write a note on Audio output
27. What is a computer terminal? List the different types of terminals
28. What the advantages of secondary storage devices over the primary memory.
29. Write the advantages of magnetic tapes
30. Write the disadvantages of magnetic tapes
31. List the advantages of magnetic disks
32. List out the disadvantages of magnetic disks
33. What is an optical disk? Give example
34. Define cluster & cylinder
35. Define seek time
36. Define Rotational Delay
37. Define Data Transfer Rate

Questions carrying 3-4 marks

1. Write a note on OCR
2. Write a note on OMR
3. Write a note on MICR
4. Describe briefly the methods of accessing data from the secondary storage devices
5. What are random access & sequential access devices? Give examples for each
6. Write a note on CD-ROM
7. Write a note on DVD-ROM
8. Write a note on floppy disk?
9. Write a note on Bar code readers
10. What is a plotter? What are its applications?
11. Write a brief note on drum plotter
12. Write a brief note on flatbed plotters
13. Define aspect ratio & screen size with respect to monitor
14. Write the advantages of optical disks
15. Write the disadvantages of optical disks

Long answer Questions (5-8 marks)

1. What are direct access devices? Explain with an example
2. What are sequential access devices? Explain with example.
3. Write a note on Magnetic tape. What are its advantages & disadvantages
4. Explain the storage organization of a magnetic disk.
5. Explain briefly the various types of Magnetic disk
6. Explain the working of a hard disk
7. Write a note on floppy disk. List the advantages & disadvantages of Magnetic disks.
8. What is an optical disk? Explain the storage organization of Optical disk
9. Explain the storage organization of a Magnetic Disk with a neat diagram
10. Explain the access mechanism of Optical disk with a diagram
11. Explain briefly the different types of magnetic disk
12. Briefly explain the different types of optical disk
13. How the computer accepts inputs from the keyboard? Explain
14. What is a pointing device? Explain any two pointing devices.
15. What do you mean by optical scanning devices? Explain any two in detail.
16. Write a note on
 - i) Bar Code Readers
 - ii) OCR
17. Write a note on
 - i) OMR
 - ii) MICR
18. What is impact printer? Explain any two impact printers
19. Explain how a dot matrix printer works with a diagram
20. What is the role of output devices in a computer? Explain its types
21. Explain the working of laser printer with a neat diagram.
22. What is a plotter? Explain its different types.
23. Explain the application areas of where plotters are useful. Discuss the various types of plotters
24. What is LCD? Differentiate between CRT & LCD monitors.
25. Write a note on computer terminals