
First Year B.C.A (Sem. I) (CBCS) Examination
103 : Introduction to computer

Q.1 Short Questions (2 marks)

- (1) Define term firmware.
- (2) Define POST.
- (3) What is the difference between 2nd and 3rd generation of computer?
- (4) What is Software? List types of software.
- (5) Define the term Volatile and Non-Volatile.
- (6) What do you mean by 32-bit and 64-bit computer?
- (7) What is use of EBCDIC?
- (8) What is BIOS?
- (9) What is Flash Memory?
- (10) What is Serial port and Parallel port?
- (11) What is EEPROM?
- (12) What is Parity bit?
- (13) What is access time?
- (14) What is seek time?
- (15) What is transfer rate?
- (16) Define EDSAC, UNIVAC
- (17) What is Latency?
- (18) What is OCR?
- (19) What is OMR?
- (20) What is write protect notch?

Q.2 Long questions (7 or 8 marks)

- (1) Draw a block diagram of computer and explain all its functional units.
- (2) Explain in detail backup devices.
- (3) Explain types of computers in details.
- (4) Explain different characteristics of computer.
- (5) Explain different phases of Machine cycle.
- (6) Explain Motherboard in detail.
- (7) Explain Cache memory in detail.
- (8) Explain Monitor in Detail.
- (9) Explain different types of PORTS in detail.
- (10) Explain in detail generation of computer.
- (11) What is impact printer? Explain any one impact printer in details.
- (12) Explain scanner in detail.
- (13) What are the different Non-Impact printers? Explain any 1 of them.
- (14) What are the different Impact printers? Explain any 1 of them.
- (15) What are the different types of scanners? explain any 1 of them detail.
- (16) Explain the structure of magnetic disk in detail.
- (17) Explain the storage structure of magnetic tape in detail.
- (18) What are the types of hard disk? Explain each in detail.
- (19) Explain classification of computer in brief.
- (20) Explain any 2 addressing modes with necessary example.

- Q.3 Differences (3 to 4 marks)**
- (1) Cache Memory Vs Virtual Memory
 - (2) Inkjet Printer Vs Laser Printer
 - (3) Primary Storage Vs Secondary Storage
 - (4) RAM Vs ROM
 - (5) Inkjet Printer Vs Dot Matrix Printer
 - (6) Desktop Computer Vs Laptop
 - (7) CISC Vs RISC
 - (8) DVD Vs CD

- Q.4 Short Notes (5 marks)**
- (1) Write a short note on Plotters.
 - (2) Write a short note on Hard disk
 - (3) Write a short note on OCR and OMR.
 - (4) Write a short note on CD-ROM
 - (5) Write a short note on ROM in detail.
 - (6) Write a short note on Floppy Disk.
 - (7) Write a short note on Pen Drive
 - (8) Write a short note of Virtual Memory.

- Q.5 Answer the Following. (4 marks each)**
- (1) $(2AB)_{16} = (?)_2$
 - (2) Add binary numbers $(100111)_2$ and $(11011)_2$ in both decimal and binary forms
 - (3) $(5050)_8 = (?)_{16}$
 - (4) Find the complement of $(10101)_2$
 - (5) $(1715)_{10} = (?)_{12}$
 - (6) $(10111)_2 = (?)_8$
 - (7) $(5AC)_{16} = (?)_2$
 - (8) Subtract : $(01110)_2$ from $(10101)_2$
 - (9) Subtract $(56)_{10}$ from $(92)_{10}$ using complementary method.
 - (10) $(110111101001)_2 = (?)_8$
 - (11) $(576)_8 = (?)_2$
 - (12) $(1234)_9 = (?)_{10}$
 - (13) $(1670)_8 = (?)_{10}$
 - (14) $(11010011)_2 = (?)_{16}$