



- 3** Answer the following questions : **21**
- (a) Give the detailed classification of computers. Explain any one in detail.
  - (b) What is RAM ? Explain different types of RAM.
  - (c) Write a note on microprocessor.

**OR**

- (a) Explain Hardware and Software with diagram showing various categories of Hardware and Software.
- (b) Write a note on block diagram of computer and explain its functional units.
- (c) Explain addressing modes in detail.

- 4** Answer the following questions : **12**
- (a) Write a note on DVD-ROM.
  - (b) Explain OCR and OMR in detail.

**OR**

- 4**
- (a) Write a short note on inkjet printers.
  - (b) Explain flat panel monitors in detail.

- 5** Attempt any five : **15**
- (1)  $(123.23)_{10} = (?)_2$
  - (2)  $(BCA)_{16} = (?)_2$
  - (3)  $(A23F6.45)_{16} = (?)_8$
  - (4) Addition :  $(100111)_2 + (10011)_2$
  - (5) Subtraction :  $(ABCD)_{16} - (56CF)_{16}$
  - (6)  $(2573)_8 = (?)_{16}$ .
-