[NB. The figures mentioned in the right margin indicate full marks.
Answer all from both part A & part B
All parts (a, b, c,…) of a question must be answered sequentially.]

Part – A: Short Questions (Answer All)   4×5=20

1. a) What is a mainframe computer?   2
   b) Draw a block diagram to show the organization of a computer system.   3

2. a) What is an MICR and where is it used?   2
   b) What are the differences between Impact and Non-impact printers?   3

3. a) What is software piracy?   2
   b) What is a Firmware? What is the main difference between a Shareware and a Freeware?   3

4. a) What is a MODEM?   2
   b) What is encryption? Explain.   3

Part – B: Broad Questions (Answer All)   2x10=20

5. a) What is EEPROM? Why do you think EEPROM is better than EPROM?   3
   b) What is meant by "Generation" in computer terminology? Write down three important features from each of the generations of computer.   7

6. a) What is network topology? Briefly explain how star topology works.   3
   b) What is data communication protocol? Briefly describe the function of each layer of OSI model.   7

~Good luck~