B.C.A. (Part–I) Semester–I (Old) Examination
1ST1 : COMPUTER FUNDAMENTALS

Time : Three Hours]   [Maximum Marks : 60

Note :— (1) All questions are compulsory.

           (2) All questions carry equal marks.

1. (a) What is computer ? give its classification.   6

   (b) Draw and explain Block diagram of computers.   6

OR

2. (a) Explain Micro and Mini computers in detail.   6

   (b) What are the generations of computers ? Explain generations in detail.   6

3. (a) What is output unit ? Explain any 4 output devices in detail.   6

   (b) Differentiate between input and output devices.   6

OR

4. (a) What is scanner ? Explain MICR and OCR in detail.   6

   (b) What is VDU ? Explain CRT and LCD in detail.   6

5. (a) Explain in detail :   6

     (i) RAM

     (ii) ROM.

   (b) Explain in detail working of BIOS.   6

OR

6. (a) Differentiate between primary and secondary memory.   6

   (b) Explain :   6

     (i) Memory cell

     (ii) Cache

     (iii) Flash memory.

7. (a) What is number system ? Explain types.   6

   (b) Explain floating point representation of number in detail.   6

OR

8. (a) Differentiate between ASCII and EBCDIC code.   6

   (b) Explain conversion of hexadecimal number to decimal with example.   6

9. (a) What is programming ? Explain need of flowchart in programming.   6

   (b) What is Algorithm ? Explain in detail.   6

OR

10. (a) What is program design and coding ?   6

   (b) What is structured programming ? Explain its features and approaches.   6