## B.C.A. (Part—I) Semester—I Examination 1ST1: COMPUTER FUNDAMENTALS

Tim	e : Tì	hree Hours] [Maximum Max	rks : 60
	Not	e:—(1) All questions are compulsory.	
		(2) All questions carry equal marks.	
1.	(a)	Describe the classification of computer.	6
	(b)	State the generations of computer in detail.	6
		OR	
2.	(a)	Draw a well labelled block diagram of computer and explain the function of each b detail.	olock in 8
	(b)	State the characteristics of computer and enlist its applications.	4
3.	(a)	Explain the working of keyboard in detail.	6
	(b)	Describe the types of impact printers in detail.	6
		OR	
4.	(a)	Describe MICR and OCR as input devices.	6
	(b)	Explain any two output devices.	6
5.	(a)	Give the comparison of RAM and ROM.	6
	(b)	State the advantages of secondary memories.	6
		OR	
6.	(a)	Describe ROM family in detail.	6
	(b)	Explain the following:	
		(i) CD	
		(ii) DVD	
		(iii) Flash memory.	6
7.	(a)	Describe the procedure of conversion of binary to octal number system with suitable example.	
	(b)	Explain the following:	
		(i) BCD code	
		(ii) ASCII code	
		(iii) EBCDIC code.	6
		OR	

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- 8. (a) Do as directed:
  - (i)  $(27)_{10}$  (?),
  - (ii)  $(BCA)_{ii} = (?)_{ii}$
  - (iii)  $(15)_8 = (?)_2$
  - (b) Explain floating point representation of number with suitable example.
- 9. (a) Define the following terms:
  - (i) Interpreter
  - (ii) Assembler
  - (ii.) Compiler.
  - (b) State the features and approaches of structured programming.

OR

- 10. (a) Draw a flowchart to calculate the factorial of given number.
  - (b) Define the following terms:
    - (i) Execution
    - (i.) Testing
    - (iii) Debugging.

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