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B-2201

- 10. Write short notes on any two of the following:
  - (a) Operating System
  - (b) Addressing Modes
  - (c) Input-Output Processors.

(01/13-H)

## 2201

P.G.D.C.A./M.C.A./M.Sc. (Comp. Sc.)
(First Year) EXAMINATION

(New Scheme)

PGDCA-1/MScDE-11/MCA-DE-11 COMPUTER FUNDAMENTALS

Time: Three Hours Maximum Marks: 70

**Note**: Attempt any *Five* questions. All questions carry equal marks.

- (a) List and explain some important characteristics of a computer.
  - (b) Name some representative computer systems of each of the five computer generations.

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P.T.O.

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Convert the following numbers to decimal numbers: (i)  $(110110)_2$ (ii)  $(2A3B)_{16}$ (iii) (2573)<sub>16</sub> (iv)  $(1234)_8$ Find the complement of the following functions: 6 (i)  $F_1 = \overline{x}.y.\overline{z} + \overline{x}.\overline{y}.z$ (ii)  $F_2 = x(\overline{y}.\overline{z} + y.z)$ . Construct logic circuit diagram for a half (c) adder by using NOR gate only. Explain JK-flip flop in detail. (a) What is a Counter ? Explain its application. Differentiate between RAM and ROM. 7 (a) What are the main limitations of primary (b)

6		
7.		
8.		
9.		
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5.	(a)	What do you mean by high speed		
		memory? How is it implemented in a		
		system ?		
	(b)	Explain DMA. 7		
6.	Exp	lain the printing mechanisms of any two		
	prin	ters. 14		
7.	Write short notes on the following:			
	(a)	CD-ROM		
	(b)	Sound Cards.		
8.	(a)	Differentiate between Compiler and		
		Interpreter. 7		
	(b)	What are the various types of registers ?		
		Explain their importnace. 7		
9.	(a)	Explain advantages of Assembly language		
		over Machine language. 7		
	(b)	What is an operand, opcode? Explain		
		the instruction format. 7		
(2-8	3) 220	3 P.T.O.		

storage of a computer system?