COd

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COe

## SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

Total number of pages:[1] ROLL No: Total number of questions:06

## B.C.A. 1st Sem

## **Digital Electronics**

Subject Code: BCAP1-103

(for office use) Paper ID: MIS

Time allowed: 3 Hrs

(2016 botch onwards)

Max Marks: 60

To be specified by paper setter

RP1

## Important Instructions:

0.6.

- All questions are compulsory
- Assume any missing data

	PART A (2×10)	A11 CO-
Q. 1.	Short-Answer Questions:  (a) What is Number System?  (b) What are Universal Gates?  (c) Discuss Overflow and Underflow conditions?  (d) Differentiate between ROM and RAM?  (e) What do you mean by integer and floating point representation?  (f) Explain Grey code?  (g) Discuss Boolean Algebra?  (h) Explain Truth Table?  (i) What do you mean by Flip Flop?  (j) What do you mean by Binary Adder?	All COs
	PART B (8×5)	
Q. 2.	What do you mean by Number System? Explain?	COa
Q. 3.	Differentiate between 1's Complement and 2's Complement methods?	COa COb
Q. 4.	What do you mean by Karnaugh Maps? Discuss	CO <sub>b</sub> CO <sub>c</sub>
Q. 5.	Discuss encoder and Decoder?  Discuss encoder and Decoder?  Elin Flon? Explain J-K flip flop?	COc COd

OR

What do you mean by Register? Explain its types?

Differentiate between Static and Dynamic memory?

Explain Read and Write Control Timing Diagrams for ICs?