

AF-3038

B. Sc. (Part - II)
Term End Examination, 2017-18

Paper - I

Electronics

Tim	ie:	Three Hours]	[Maximum	Marks: 50
Note :		Answer all questions. The figures in the right-hand margin indicate marks. Draw the suitable circuit diagram wherever necessary.		
		Unit-	·I	
1.	(a)	Explain Gray Cod	e with proper e	example. 4
	(<i>b</i>)	Explain X-NOR g	gate.	4
	(c)	Add $(11)_2$ and $(10)_2$	00) ₂ .	2
		OR		
	(a)	Explain circuit an	nd operation o	of NOT
		gate.		5
	(<i>b</i>)	Multiply $(110)_2$ and	$10(10)_2$.	3
	(c)	Substract (11) ₂ from	om (110) ₂ .	2
 451	BSP	(2)		(Turn Over)

(2)

Unit-II

2. Explain laws of Boolean Algebra (any four). 10

OR

Explain Sum of Product (SOP) for logic function with examples.

Unit-III

3. Explain DTL logic. Write its characteristics. 10

OR

Explain JK flip-flop.

Unit-IV

4. Explain Synchronous Counter.

10

OR

Explain D/A converter.

Unit-V

5. Write short notes on Memories.

10

OR

Draw block diagram of a 8085 microprocessor. Explain it.