

## bha inemio afforeist niskez3 (d I Semester B.C.A. Examination, December 2018 (CBCS) (Fresh) COMPUTER SCIENCE **Digital Electronics**

14) a) What is recilier? Explain full wave recified

Time: 3 Hours

AB + AIB + C) + B (B + C) traing Boolean a gobra and draw	Max. Marks: 70
Instruction : Answer all the Sections.	
SECTION – A	
I. Answer any ten of the following.	(10~2 <b>–</b> 20)
1) State Ohm's law	
Define cycle and periodic time with respect to AC waveform.	
3) What is biasing? Explain reverse bias.	
4) Differentiate Fan-In and Fan-Out.	rmores (s. (e.
5) Define RMS value.	
6) Find the 2's complement of (11010) <sub>2</sub> .	
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8) What is AND gate? Write its truth table and logic symbol.	
9) What is sequential logic circuit? Give an example.	
10) What is half adder ? Write its logic circuit.	
11) What is conductor and insulator?	
12) Define shift register.	
SECTION – B	
II. Answer any five of the following questions.	(5×10=50)
13) a) State and explain Norton's theorem.	5
b) Explain Forward and Reverse bias.	_

P.T.O.

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20) a) What is energy band? Explain all the three energy bands.

b) Subtract (29)<sub>10</sub> – (7)<sub>10</sub> using 2's complement method.

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