

Paper Code: 13507
1507

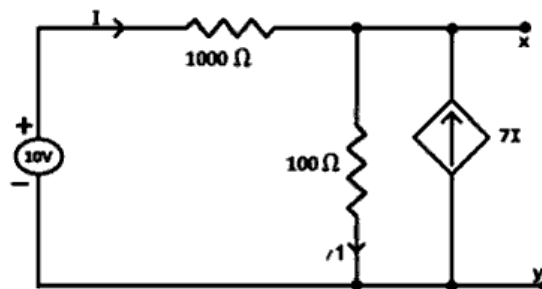
B.Sc. (Computer Science) (Part 1)
Examination, 2016
Paper No. 3.1
BASIC ELECTRONICS

Time: Three Hours]

[Maximum Marks: 33

Note: Attempt all the *five* questions in all. Question No. 1 is compulsory.

1. Describe the binary logic. Write down the Kirchhoff's current and voltage laws.
2. (a) Differentiate low-pass and high-pass filters.
(b) Explain the superposition-theorem with their example.
3. (a) How oscillator is different from multivibrators.
(b) Write clearly about transformer relays describing its working.
4. (a) What are various BJTS-characteristics?
(b) Draw a well labelled block diagram of a power supply transformer.
5. (a) Obtain Thevenin's and Norton's equivalent circuit between 'x' and 'y' for the following network:



- (b) Write down the operating-principle of SMPS.
6. (a) Explain the difference between summing and difference amplifier.
(b) Define the following terms:
 1. LED with photodiode
 2. LED with traditional diode
 3. Write short notes on any two of the following:
 4. PN-junction diodes
 5. Monostable multivibrators
 6. OP-AMP with black box concept
 7. Clipping and Clamping circuits

.....End.....

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