65122

I Semester B.C.A. Degree Examination, March/April 2022
(CBCS Scheme)
COMPUTER SCIENCE
Digital Electronics

Time : 3 Hours Max. Marks : 70

***Instruction** : Answer **all** Sections.*

SECTION – A

I. Answer **any ten** questions. **(10×2=20)**

1) State Ohms Law.

2) Give the equivalent resistance for two resistors in series and parallel.

3) Define Kirchhoff's current Law.

4) Define frequency and cycle with respect to AC waveform.

5) What is Conductor and Insulators ?

6) What is Intrinsic and Extrinsic semiconductors ?

7) What is Doping ?

8) Find the 2's complement of 0011001.

9) Prove that A + AB = A.

10) Write the logical symbol and truth table of NOR gate.

11) What is combinational circuit ?

12) What is ASCII ?

SECTION – B

II. Answer **any five** questions. **(5×10=50)**

13) a) State and explain Norton's theorem. **5**

b) State and explain superposition theorem. **5**

P.T.O.