Bachelor of Computer Application (BCA) 2nd Semester (Batch 2023-26) (CBGS)

PRINCIPLES OF DIGITAL ELECTRONICS

Paper-II

Time Allowed—3 Hours]   [Maximum Marks—75

Note :— Attempt **FIVE** questions in all, selecting at least **ONE** question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. What is 1's complement ? How and why do we find it ?

2. What is Grey Code ? Explain how to get Grey Code for $(23)_{10}$?

SECTION—B

3. What is canonical form ? How do we use it ? Explain with an example.

4. Why do we use K-map ? Explain with an example of four variables.

SECTION—C

5. Explain multiplexer and its working.

6. What is a counter ? How and why do we use it ?

SECTION—D

7. Explain how and why do we classify the devices.

8. What is timing diagram ? How do we draw them ? Explain with examples.