Exam. Code : 107202

Subject Code: 1650

Bachelor of Computer Application (BCA) 2nd Semester (Batch 2022-25)

PRINCIPLES OF DIGITAL ELECTRONICS Paper-II

Time Allowed—3 Hours

[Maximum Marks—75

Note :- Attempt FIVE questions 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

- Explain the concept of 1's and 2's complement.
- What are BCD and Grey Codes?

SECTION-B

- What are different minimization techniques? Explain any one.
- What is a Universal gate? How are other gates constructed using it?

SECTION-C

- Design and explain an adder of your choice.
- What are Flip-Flops? Explain any two types of these briefly.

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(Contd.)

SECTION-D

- Write about the following;
 - Static Vs Dynamic devices
 - (b) Read Only and Random Access chips
- 8. Write and explain a timing diagram.