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SUBJECT CODE NO: - YY-2397
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (CBCGS) (Pattern 2022) F.Y SEM II
Examination April / May - 2024
Computer Science Paper-IV Digital Electronic



[Time: 1:30 Hours]

[Max. Marks: 40]

Please check whether you have got the right question paper.

N. B.

- 1) All questions are compulsory.
- 2) All Questions Carry Equal Marks
- 3) Draw neat diagrams and give labels wherever necessary
- 4) Fingers to the right indicate full marks.

Q.1 What are the postulates of boolean algebra? Explain it in details. 10

OR

- a) Explain in brief. 4 line to 1 line multiplexer. 5
- b) Explain in brief. K-Map for 3 Variable 5

Q.2 What is the use of Flip-Flop? Explain RS Flip-Flop and T Flip-Flop in detail. 10

OR

- a) What is Ripple Counter? Explain in brief A Synchronous Counter. 5
- b) What is counter? Explain in brief MOD-12 Counter. 5

Q.3 Write short notes on (Any two) 10

1. Commutative Law of Boolean algebra.
2. Minterms and Maxterms.
3. Trigeering
4. Ring Counter.

Q.4 Multiple Choice Questions. 10

1. How many inputs does a logic gate have?

a) 0	b) 1
c) 2	d) 3

2. Binary coded decimal is a combination of _____

a) Two binary digits	b) Three binary digits
c) Four binary digits	d) Five binary digits

