S.No. 5295 RACSY 92 A

(For candidates admitted from 2010–2015 Batch)

B.Sc. DEGREE EXAMINATION, APRIL 2022

Part III – Allied

DIGITAL ELECTRONICS

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL questions.

1. Write notes on binary codes.
2. List out the types of number system.
3. Define Boolean algebra.
4. Define max term.
5. Define sum of product.
6. Write about don't care conditions.
7. Define Multiplexer.
8. Define Encoder.

9. Define counters.

10. Define Flip Flop.

PART B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write short notes on number system.

Or

(b) Explain about Decimal to binary conversion.

12. (a) Write short notes on laws and theorems of Boolean algebra.

Or

(b) Write short notes on Integrated circuits.

(a) Explain about Karnaugh maps.

Or

(b) Discuss about Product of sum.

(a) Explain about Encoders.

Or

(b) Describe about BCD Adder.

15. (a) Write short notes on counters.

Or

(b) Explain about shift register.

PART C — (3 × 10 = 30)

Answer any THREE questions.

16. Explain the binary multiplication and binary division with suitable examples.

17. Explain about logic gates with suitable truth table.

18. Explain about simplification of logic circuits.

19. Explain about the Full Adder with logic diagram and truth table.

20. Explain in detail about Flip Flop and its types.

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