

Roll No. 218021500201

Total No. of Questions : 5]

[Total No. of Printed Pages : 2

**EW-166**

**B.E. III<sup>rd</sup> Semester (New Scheme) CSE**

**Examination, 2021-22**

**Digital Electronics**

**Paper - CS - 302**

**Time : 3 Hours]**

**[Maximum Marks : 60**

**Note :-** Attempt all questions. Each questions carry equal marks.

1. Explain Different Boolean laws and theorems. Discuss advantages of De-morgan's law.

**OR**

Explain

**EW-166**

(1)

**P.T.O.**

- (a) Number system
  - (b) Radix Convesion
2. Explain concept of minterm and Max term. Describe procedure for simplification of boolean expression with example.

**OR**

Explain various minimization techniques. Also Compare them.

3. Explain encoder and decoder with circuit diagram.

**OR**

Draw and Explain JK and Master slave JK flipflops.

4. Explain state table and transition diagram. Explain Mcore model Meachine in detail.

**OR**

Explain

- (a) RTL and DTL
  - (b) CMOS
5. Explain binary ripple Counter Also discuss its advantages.

**OR**

Explain Shift registers and series paralld shift register.

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