| _ | _ | | | |
|---|---|------|----|--|
| ς | R | R∩II | Nο | |
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DIGITAL ELECTRONICS 3rd Exam/ECE/CSE/IT/0195/Dec'22 (For 2018 Batch Onwards)

| | (For 2018 Batch Onwards) | 6. N.Z. |
|---------|--|---|
| Duratio | on: 3Hrs. M SECTION-A | .Marks:75 |
| 01 Do | as directed. | 15x1=15 |
| | 1's complement of 010001 is | 10/1-10 |
| | A SC II is bit code. | |
| | | |
| | signal varies continuously with time. | |
| d. | BCD stands for | |
| e. | SIPO stands for | |
| f. | Boolean rule (A+B) (A+C) = | |
| g. | RAM stands for | |
| h. | Define Parity. | |
| İ. | Define Counter. | |
| j. | IC74194 isshift register. | |
| | The conversion time of successive approximation ADC is constant. (T/F). | |
| I. | The fastest A/D converter is | |
| | Add the BCD number- 1001 to 0100 | |
| | What do the letter R and S stands for the term "RS latch"? | |
| 0. | Draw symbol of XOR Gate. | |
| | | |
| | SECTION-B | |
| | empt any six questions. | 6x5=30 |
| | Differentiate between analog and digital signal. | |
| | Explain Universal Property of NAND Gate. | |
| | Draw and explain the circuit of Full Adder. | |
| iv. | With the help of neat diagram explain the working of JK Flip Flop. | |
| ٧. | What are shift register? Give its type. | |
| ٧i. | Describe the working of seven segment display. | |
| vii. | Explain the working of weighted register D/A Converter. | |
| viii. | Differentiate weighted and Non-Weighted codes. | |
| | | |
| | SECTION-C | |
| Q3. Att | empt any three questions. | 3x10=30 |
| a. | Discuss the OR, NOT, AND, NAND, NOR Gates with their symbol & truth table | es. |
| b. | Draw the diagram and explain the working of 3 to 8 line decoder circuit. | |
| | Write a short note on the following: a) ASC II Code b) Parity | |
| | With the help of diagram explain the working of successive approximation ty | pe A/D Converter. |
| e. | Minimize and realize following logic function using K-map $(A,B,C,D)=\Sigma$ m | • |
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