

**KIIT Deemed to be University**  
**SPRING 2<sup>ND</sup> MID-SEMESTER EXAMINATION – 2017**  
**DIGITAL ELECTRONICS (EC-2011)**

Full Marks: 25

Duration: 1 hrs 30mins

- Answer any 5 Questions and Q1 is compulsory.
- The figures in the margin indicate full marks.
- Candidates are required to give their answers in their own words as far as practicable and all parts of a question should be answered at one place only.

1) a) What are the drawbacks of 4-bit binary parallel adder circuit? (1x5)  
 b) Define 'error detecting codes' and 'error correcting codes'.  
 c) Implement OR gate in a 2X1 MUX.  
 d) Draw a buffer gate using XNOR gate.  
 e) Draw a D-Flip-Flop using JK- Flip-Flop

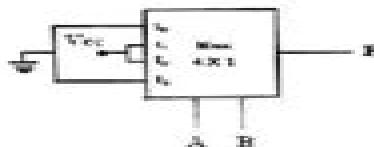
2) Implement the following function using 2X1 MUX. (5)  

$$F = AB + \bar{C}D + \bar{A}\bar{C}$$

3) Obtain the minimized expression using K-map for the function (5)  

$$f = \sum m(0,1,2,3,5,9,10,11,14,15) + \sum d(6,7)$$
 and implement the minimized expression using NAND gates only.

4) a) Draw the logic diagram of full subtractor using minimum number of NAND gates. (3)  
 b) Identify the Boolean function  $F(A,B)$  implemented with MUX (2)



5) a) Draw a 4-bit PISO Shift Register using D- Flip-Flop (3)  
 b) What is Demultiplexer? How does it differ from a Decoder circuit (2)

6) a) Implement a Full-Adder in an active low decoder and using 2-input gates only. (3)  
 b) What is BCD-SSD decoder? Also draw its truth table. (2)



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