UDHA-CA(1a)

2015

Full Marks: 50

Time: 3 hours

Answer any five questions

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable.

1. Fill in the blanks and show the working clearly:

Binary	Octal	Decimal	Hexadecimal
10101010	4567	6789	cdef

2. Perform binary subtraction using 2's complement method and show the working clearly: 5×2

(i) 10101010 - 01010101

7010101

(ii)01010101-10101010

3. (a) Realize an AND gate using NOR gates only. 5

0000101

(Turn Over)

(b) Differentiate between combinational and	5
sequential circuits.	
4. What is a multiplexer? Explain its working with	10
5. Explain the concept of JK flip-flop. How can a JK flip-flop be converted into a D type flip-flop?	
6. List various memory reference instructions and explain them in brief.	10
7. What is Cache Memory? Why is it required? Clearly differentiate between Cache memory and Virtual memory.	1 10
8. (a) What is a flowchart? Briefly explain the symbols used in Flowcharts.	5
(b) Draw a Flowchart for finding the greater among three numbers entered by a user.	5
9. Write notes on:	
(i) Pseudocode	5
(ii)ALU	5
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