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## **BMS College of Engineering, Bangalore-560019**

(Autonomous Institute, Affiliated to VTU, Belgaum) **December 2015 Semester End Main Examinations** 

**Course: Computer Organization & Architecture Duration: 3 Hours Course Code: 15CS3DCCOA** Max Marks: 100 Date: 17.12.2015

Instruction: Answer any five full questions choosing one from each unit.

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## **UNIT-IV**

6.	a)	What are the advantages of Booth recoding? Perform the multiplication of 01100	08
		X 11010 using Booth recording.	
	b)	What are the advantages of carry-save adder? Perform the multiplication of	10
		101101 X 111111 using carry-save addition and write the appropriate hardware	
		circuit to perform the same.	
	c)	Represent 0.021 in IEEE single floating point format.	02
		UNIT-V	
7.	a)	Using a Single Bus Architecure, Write & Explain the sequence of control steps	10
		required for ADD THE (IMMEDIATE) NUMBER NUM TO REGISTER R1.	
	b)	Explain with block diagram the basic organization of a micro programmed	10
		Control unit.	

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