

## BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT YELAHANKA - BANGALORE - 64

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## IV INTERNAL ASSESSMENT TEST, MAY - 2017

Subject: Microprocessors & Microcontrollers	Subject Code: 15CS44	Branch & Semester : CSE - 4 A & B	
Max. Marks : 30 Marks	Date: 30/05/2017 Time: 2 PM - 3:30 PM	Faculty: Mr. Shankar R	

Answer FIVE full questions, selecting THREE full questions from Part A.

(Part B is compulsory)

Q. No		Question	compuisoryj		CO, PO, K level	Marks
		PAI	RT-A			
1.	Explain the following instru AAD DAS	CMPSB XCHG			CO2 (PO1) K2	06
			OR .			1
2.	Explain the following instru LOOP IDIV	ction with suitable e <sup>7</sup> SAL IMUL	xamples:		CO2 (PO1) K2	06
3.	Explain all the rotate instruc	tions with suitable $\epsilon$	examples.		CO2 (PO1) K1	03
			)R			
4.	What are the sources of i processor to execute an inter	1 0	explain the steps to	aken by a	CO2 (PO1) K1	03
5.	With a neat block diagram e	xplain 82C55 PPI.			CO2 (PO1) K1	06
		C	)R	1		•
6.	Explain the following instru IN OUT X		xamples:		CO2,CO4 (PO1,PO3) K3	06
		PAF	RT-B			
7.	In assembly language, analy its palindrome property.	se the case of taking	g string as input and	l check for	CO2 (PO1,PO2) K4	06
8.	Develop an assembly program to display messages "BMS" and "IT" alternately with flickering effects on a 7-segment display interface				CO2,CO5 (PO2,PO3) K6	06
Course	Outcomes: Students will be	able to				
CO1	Describe the architecture Programming.	-				
CO2	Discuss the Instruction Set o			erface variou	s devices to X	86 families
CO3	Understand ARM philosophy					
CO4	Demonstrate the skills to cod			a Dua manas i	m m ADM	
CO5	Construct software and hardware programs using Assembly Language Programming, ARM.					