USN :



J.N.N COLLEGE OF ENGINEERING, SHIVAMOGGA

## DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

## **II-INTERNAL ASSESSMENT**

Semester: 7-CBCS Subject: ARM Embedded Systems (18EC753) Faculty: Mr. Benak Patel M P Date: 05 JAN 2022 Time: 10:50 AM – 12:20 PM Max Marks:50

1		Answer Any 2 Question(s)		ks C	O BTL
	а	Explain the importance Barrel shifter Data Processing instructions with relevant examples.	10	2	L2
	b	Explain different addressing modes for load store multiple instructions with relevant examples.	15	2	L3
		OR			
2	а	Explain the terminology Atomic operation and explain how SWP instruction is used to implement semaphore.	10	2	L2
	b	Explain the working of stack Memory considering STMFD and STMED .	15	2	L3
3	а	Explain Push and Pop instruction in Thumb stack operations with example.	10	3	L3
	b	Explain conditional execution in ARM and explain the same by writing an	15	2	L2
		ALP subroutine to find GCD of two numbers.			
		OR			
4	a	Exlpain ARM-Thumb internetworking with BX and BLX instruction usage.	10	3	L3
	b	What are Pseudoinstructions and Explain with example how 32bit long constants are loaded into a register.	15	2	L2
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