Printed Pages: 02				Sul	Sub Code: NEC803					
Paper Io			Roll No.							
			В ТЕСН							
		(SEM-	VIII) THEORY EXAMINATEMBEDDED SYSTEM		N, 201	8-19)			
Time: 3	Hours						Tot	al Ma	ırks:	100
Note: 1	. Attempt all Se	ctions. If r	require any missing data; then SECTION A	choo	se sui	tably	•			
1.	Attempt all questions in brief.							2	2 x 10	0 = 20
	a) Explain the need of watchdog timer.									
	b) What do you	mean by I	Real time scheduling?							
	c) What are the different components of embedded system hardware?									
	d) Define fault tolerance.									
	e) What are the challenges faced in designing an embedded system?									
	f) What is the no									
	g) Classify I/O									
	h) What are the									
	*		embedded processor.							
	J) Define signal	conditioni	ing in embedded system.			>				
			SECTION B		ó\	*				
2.	Attempt any th	ree of the	following	. \	X			1	10x3=	=30
۷.	•		of memories required in an en	nhed	ded sv	zsten	1	_	IUAJ	30
			and threads in context to RTO		aca sy	Stell				
			n of embedded computation sy		n.					
			echanism in embedded system							. (
	e) Explain different services of OS.									.6
			SECTION C							
									/_ `.	
3.	Attempt any or							Ŋ	10x1=	=10
			of washing machine using em			stem		V		
	b) What are the	various ch	naracteristics of an embedded s	syste	m?					
	.						no v		10 1	10
4.	Attempt any or			. 11	1 .	0		J	10x1=	=10
			gies of communication for emb	beaa	ea sys	tem.				
	b) Explain embedded control in detail.									
5.	Attempt any or	ne part of	the following:					1	10x1=	=10
٠.			scheduling models in RTOS.							10
			functions in operating system of	of em	bedde	ed sy	stem.			
6.	Attempt any <i>one</i> part of the following:							1	10x1=	=10
	a) Discuss vario	ous techniq	ques of DAC with its advantag	e and	d disac	dvan	tages.			
	b) Explain Freq	uency spec	ctrum and sampling with neces	ssary	/ block	c dia	gram.			
			1/							
7.	Attempt any or							1	10x1=	=10
			n embedded processor.	_		_		_		
			camming language used as the		elopme	ent la	nguag	ge in		
	embedded syste	m. justify	your answer with valid reason	ıs.						