

4 X 8 8 4 X 9	**************************************						
Cod	de No: 117C		(I TECHNOL	OCICAI INK	ERSITY HYDE	R13	
		ch IV Year I Se	mester Examii		oer/December - 2		+5,25%
Tin	ie: 3 Hours	*** ***	200 400	nunication Engi	neering)	ax. Marks: 75	
Not	Part A i	ongists of 5 U	which carries nits, Answer a	25 marks. Ans	wer all question estion from each	ns in Part A. h unit Each	
			PAR	T- A			
						(25 Marks)	
b) c)	What is the What is the	e role of ASIC i	te "Portability"		systèm design co	[2] ontext. [3]	
d) e)	What is A What is th	ctuator? e role of Reset C	Circuit in embed	lded system?		[3] [2]	
f) g) h)	What are the work what is are	he merits and dr	awbacks of 'rec m? What are it	•	ns!?	[3] [2] [3]	
i) j)		ffman conditions ple threads of a		rate?		[2] [3]	
			PAR		FG	(50 Marks)	
2.	Define an	embedded syster	m? Explain the o		Embedded Syste	ms. [10]	
3.[]	Explain the	various purpos	es of embedded	systems in detai	l with illustrative	examples.	
4.a)	embedded	systems.			n the selection of	memory for	
b);	Explain the	difference betw	eën:1 ² C and SP	I communication	interface.	[5+5]	1 4 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
5.				s used in automot		[10]	
		The second second second	Q*				
4 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	···. .::::	AC	ĦŒ	FIG	MU	FIG	



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	6. Explaimemo	in the different ory månager.	t sections of a m	nemory segment	allocated to an a	pplication by the [10]	120 9 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
	7. Explain the difference between 'pointer to constant data' and 'constant pointer to data' in Embedded C programming. Explain the syntax for declaring both. [10]													
	8.a) Explain starvation in the process scheduling context. Explain how starvation can be effectively tackled. b) What is the difference between a General Purpose kernal and Real-Time kernel? Give an													
	examp	ole for both.				[5+5]								
	9. Explai	n the different	multitasking moo	OR in the operat	ing system contex	t. [10]	7 1 6 6 6 7 6 6 6 6 7 6 6 6 7 6 6 6 7 6 6 6 7 6							
	Inter P	rocess commun	nication.		achronization issu	[10]								
		n the architectu drivers.	re of device driv	OR :: er, with neat ske	tch and give the a	oplications of	344							
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	AG		PG	MC		FIG								
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