G.R. No.

DECEMBER 2021 - ENDSEM EXAM

B. TECH. (E&TC) (SEMESTER - I)

COURSE NAME: Embedded Systems

COURSE CODE: ETUA40181C

(PATTERN 2018)

Time: [[Max. Marks: 30]	
(*) Instructions to candidates: 1) Answer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6.		
Q.1 a)	Justify suitability of ucos-II RTOS for embedded system development.	[4]
Q.1 b)	Illustrate any two multitasking methods used in ucos-II.	[6]
	OR	
Q.2 a)	Interpret the advantage of using OSTakCreateExt () against OSTaskCreate ()	[4]
Q.2 b)	With the help of any three TCB fields, Illustrate the control established in multitasking operation in ucos-II based application	[6]
		[4]
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Q.3 b)	Explain the typical embedded Linux set up for application development. OR	[6]
		[4]
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	Deduce the advantages of loadable kernel module usage in embedded application	[6]
	Illustrate the need of real time component in underground tank monitoring	[4]
	system.	[6]
Q.5 b)	Justify the usage of PID control in Automatic cruise control system	[6]
	OR	[41
-	Demonstrate control algorithm in Automated Cruise Control system.	[4]
Q.6 b)	Illustrate any three requirements to be adopted for underground tank monitoring system to be real time	[6]