R16

Code No: **R164104D**

Set No. 1

IV B.Tech I Semester Advanced Supplementary Examinations, May - 2022 EMBEDDED SYSTEMS

(Electronics and Communication Engineering)

Time: 3 hours		e: 3 hours Max. Mark	Max. Marks: 70	
		Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any FOUR questions from Part-B *****		
1.	a) b) c) d) e) f)	PART-A (14 Marks) Discuss Testability Quality attributes of embedded systems. Explain the usage of Buffers in embedded hardware circuit. Write the drawbacks of assembly level language. Define scheduler. What are the advantages of simulator based debugging? What is the difference between interpreters and compilers.	[3] [2] [2] [2] [2] [3]	
2.	a) b)	PART-B (4x14 = 56 Marks) What is an Embedded system? Give the classification of embedded systems. Discuss the following Operational Quality attributes of embedded systems: i. Response ii. Security	[7] [7]	
3.	a) b)	What is the Synchronous Communication? Discus different ways of Synchronization. Discuss in detail about wireless devices	[7] [7]	
4.	a) b)	What is ISR? And discuss the features of ISR Explain briefly about device driver programming	[6] [8]	
5.	a) b)	Write short note on Shared Memory concept. What are the issues to be considered in Hardware software co-design? Explain	[7] [7]	
6.	a) b)	State the uses of assembler and disasembler in embedded application development. Explain in detail about Embedded software development-process.	[7] [7]	
7.	a) b)	Explain in detail about how testing will done on host machine. Discuss Simulators and Interpreters in detail.	[7] [7]	