R22

Model Question Paper
ANURAG Engineering College
(An Autonomous Institution)
III B.Tech. II Semester Regular Examinations, June -2025
EMBEDDED SYSTEMS DESIGN
(ECE)

Time: 3 Hours　　　　　　　　　　　　　　　　　　　　　　**Max.Marks:60**

Section – A (Short Answer type questions)		(10 Marks)		
Answer All Questions		**Course Outcome**	**B.T Level**	**Marks**
1.	Define Embedded Systems?	CO1	L1	1M
2.	Write the Few applications of Embedded Systems?	CO1	L1	1M
3.	What is an Interrupt?	CO2	L1	1M
4.	Mention any Three Memory types?	CO2	L1	1M
5.	Write about I2C?	CO3	L1	1M
6.	Define Serial communication?	CO3	L1	1M
7.	What are elements is C-Programming?	CO4	L1	1M
8.	Write Difference between Macros and Functions?	CO4	L1	1M
9.	What is TASK?	CO5	L1	1M
10.	What is mean by Queue?	CO5	L1	1M
Section - B (Essay Questions)				
Answer all questions, each question carries equal marks.		**(5 X10M = 50M)**		
11.	Explain Embedded Hardware units and devices in a system?	CO1	L3	10M
	OR			
12.	Illustrate the Classifications of Embedded Systems?	CO1	L3	10M
13.	Draw and explain the architecture of 8051 Microcontroller?	CO2	L3	10M
	OR			
14.	Write about the Memory maps and addresses?	CO2	L3	10M
15.	Explain about the Wireless devices?	CO3	L3	10M
	OR			
16.	Illustrate the parallel communication bus in ISA?	CO3	L3	10M
17.	Discuss about the Macros and Functions?	CO4	L3	10M
	OR			
18.	Explain about the Processor directives?	CO4	L3	10M
19.	Explain about the Mailbox?	CO5	L3	10M
	OR			
20.	Write about the Message Queue Functions?	CO5	L3	10M