Reg. No.:

Question Paper Code: 47404

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Seventh Semester

Electronics and Communication Engineering

14UEC704 EMBEDDED AND REAL TIME SYSTEMS

(Regulation 2014)

D	Ouration: One hour	Maximum: 30 Marks			
	PAR	$\Gamma A - (6 \times 1 = 6 \text{ Marks})$			
	(Answer any	six of the following questions)			
1.	ARM processors are basically designed for				
	(a) Main frame systems	(b) Distributed systems			
	(c) Mobile systems	(d) Super computers			

(c) Mobile systems

(d) Super computers

2. ARM7 is a _____ processor with _____Architecture

(a) RISC, Harvard

(b) CISC, Von Neumann

(c) RISC, Von Neumann

(d) CISC, Hardvard

3. A large memory is compressed into a small one by using _____

(a) LSI semiconductor

(b) VLSI semiconductor

(c) CDR semiconductor

(d) MSI semiconductor

4. Executable binary file generation is carried out by

(a) Assembler

5. If the period of process is P,then the rate of the task is_____

(b) Loader

(a) P^2 (b) 2P (c) 1/P (d) P

(c) Linker

(d) Compiler

6.	The priorities that change during execution is								
	(a) Static	(b) D	ynamic	(c) Both	(d) None				
7.	The interconnect network	work used in automotive electronics is							
	(a) I^2C	(b) Ethernet		(c) Internet	(d) CAN				
8.	Internet enabled network	k has applications in							
	(a) Hard Real time	(b) Soft Real Time		e (c) In both a & l	o (d) Non Rea	1 Time			
9.	9. Software Modem utilizes								
	(a) PSK	(b)	ASK	(c) FSK	(d) QPSK				
10.	10. Huffman coding is used for								
	(a) Text compression (b) Video compression								
	(c) Image compression (d) File compression								
PART – B (3 x 8= 24 Marks)									
(Answer any three of the following questions)									
11. Discuss the embedded system design process in detail.									
12. Elaborate in detail about the different types of Memory devices with neat sketch									
13.	13. Describe any two scheduling policies used in multiprocessor environment								
14.	14. Discuss in detail about internet enabled systems with neat sketch.								
15.	15. With a neat diagram, Describe how Personal Digital Assistant and data compressor								
	are designed					(8)			