BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE) B.Tech.Sem - VIII E & TC :SUMMER- 2022 SUBJECT : SOFTWARE DEFINED RADIOS

Day : Monday

Date : 20-06-2022

S-13377-2022

Time : 02:30 PM-05:30 PM

Max. Marks : 60

N.B.	1) All COMPANICODA	
	 All questions are COMPULSORY. Figures to the RIGHT indicate FULL marks. 	
	3) Use of non-programmable calculator is allowed .	
	4) Assume suitable data WHEREVER necessary.	
Q.1	Explain software radio architecture and applications also combine to distinct	(10)
Q.1	Explain software radio architecture and applications also explain traditional hardware radio architecture.	(10)
	OR	
Q.1	Draw and explain basic block diagram of software defined radio.	(10)
Q.2	What are 3G RF performance requirements?	(10)
0.3	OR	(4.0)
Q.2	Explain cascading digital converters and digital frequency converters.	(10)
Q.3	Explain DSP compilers and reconfigurable processors for signal processing.	(10)
Q.3	OR Write a short note on 'Adentive computing mechine EDGA'	(10)
Q.3	Write a short note on 'Adaptive computing machine FPGA.'	(10)
Q.4	Write down software standards for software radio.	(10)
Q.4	OR Explain major software architectural choices for SDR.	(10)
~··	Explain major soreware distributed for SDR.	(10)
Q.5	What are the principles of Smart Antenna System?	(10)
Q.5	OR Explain Smart Antenna Architecture.	(10)
~···	— p Zanado A Antonia A Montecotoro.	(10)
Q.6	What are the application potentials of low cost experimental software radio platform?	(10)
	OR	
Q.6	Explain TMS 320 C 62 xx EVM Daughterboard interface and PIC interface.	(10)
