BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS:	M.TECH	(SEMESTER : III
BRANCI	H: ECE		SESSION : MO/19
TIME:	SUBJECT: ECC 3 HOURS	605 COGNITIVE RADIO COMMUNICATION AND NE	TWORKS FULL MARKS: 50
 INSTRUCTIONS: 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 			
Q.1(a)	Explain various functions o	of software defined radio.	[5]
Q.1(b)	Explain the architecture of	f software defined radio system.	[5]
Q.2(a)		o improves spectrum utilization.	[5]
Q.2(b)		s of cognitive radio system.	[5]
Q.3(a)	• • • •	ctrum opportunity detection.	[5]
Q.3(b)		y feature detection is used.	[5]
Q.4(a) Q.4(b)			vork in CR networks. [5] [5]
Q.5(a) Q.5(b)	Discuss the significance of Discuss CRN architecture.	CRN for 5G.	[5] [5]

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