Reg. No. :											
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Question Paper Code: 52204

M.E. DEGREE EXAMINATION, MAY 2017

Elective

Communication Systems

15PCM519 - COGNITIVE RADIO NETWORKS

		(Regulation 2015)			
Du	ratio		Maximum: 100 Marks		
		Answer ALL Questions			
		(PART A - 5x20=100)			
1.	(a)	Describe the challenges and opportunities of cognitive radio.	(20)		
		Or			
	(b)	Explain the architecture of SDR with neat diagrams and its implications.	(20)		
2.	(a)	Explain the various interface topologies available for SDR.	(20)		
		Or			
	(b)	Discuss briefly about architecture partitions of SDR with diagrams.	(20)		
3.(a)	Draw the cognitive radio framework and explain each block.	(20)		
		Or			
	(b)	With a neat diagram, explain the simplified cognition cycle.	(20)		
4.	(a)	Discuss about the component of orient, plan and decide phases.	(20)		
		Or			
	(b)	With neat architecture, explain the cognitive radio components.	(20)		
5.	(a)	Explain the each components and its functionality of xG network architecture.	(20)		
		Or			
	(b)	Explain in detail about spectrum sharing process with steps.	(20)		