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	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2019 RADAR SYSTEMS (Electronics and Communication Engineering) Max. Marks: 75 This question paper contains two parts A and B.	
	Part A is compulsory which carries 25 marks. Answer all questions in Part A. Par consists of 5 Units. Answer any one full question from each unit. Each question carries marks and may have a, b, c as sub questions.	
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1.a) b) c) d) f) g) h) i)	What is maximum Unambiguous range? List the applications of radar. What is Doppler effect? List the applications of CW radar What is need of delay line canceller What is blind speeds? Mention the types of tracking What is meant by tracking in range? What is matched filter? List the types of radar receivers. [2] [2] [3] [2] [3] [2] [3] [2] [3]	G/
	PART - B Draw and explain the simple radar system with a neat block diagram. OR (50 Mar [5+5]	ks) /
3.a) b)	Explain the significance Radar cross section in range equation. Derive an equation for probability of false alarm. [5+5]	
AG.	Write a note on the following: a) FM-CW altimeter b) CW radar: OR [545]	G/
5.a) b)	Explain the working principle of multiple frequency CW radar. What are the bandwidth requirements for a receiver? [5+5]	
6.a)	Explain the working principle and function of each block of power amplifitransmitter in MTI Radar? Explain the function of pulse Doppler radar and how it is different from simple pulse radar and how it is different from s	ar?
7.a) b)	What is an A-scope display? How it generates butterfly effect in MTI Radar system? Explain the limitations of MTI Radar. [5+5]	
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