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APR-MAY

B. E. (Eighth Semester) Examination, 2020

(Old Scheme)

(ET & T Engg. Branch)

RADAR ENGINEERING and NAVIGATIONALAIDS

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory and carries 2 marks and attempt two parts from (b), (c) and (d) and carry 7 marks each.

Unit-I

1. (a) What is RADAR? will be a post-unity at health (b) 2

(b) Derive the expression for RADAR range equation and give its application.

7

detedability of radar tanget.

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7

(c) Write short notes on the terms:

		(i) Refruction	
		(ii) Scattering	
		(iii) Diffruction	
	(d)	Describe forward scattering from flat candle.	7
		Unit-IV	
4.	(a)	What are the various function performed by antenna?	2
	(b)	Write short notes on cosecant squared antenna.	7
	(c)	Explain the various types of parabolic reflector.	7
	(d)	Write short notes on Radome.	7
		Unit-V	
5.	(a)	Define Noise figure.	2
	(b)	Draw and explain the block diagram of super	
		hetrodyne receiver.	7
	(c)	Explain different types of Radar display.	7

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- (d) Write short notes on:
 - (i) Magnetron
 - (ii) ECM

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(iii) Write there are become squared consenu.

(c.) Explain the various types of prevalence reflection

(II) Write short ware on Reducti

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S. (a) Dafta Nuise figure

in); Draw and regions the brock diagram at super

(c) Espinin different represent harder dienter