Seat No:

Enrollment No:_____

PARUL UNIVERSITY

FACULTY OF APPLIED SCIENCE M.Sc., Summer 2017-18 Examination

Semester: 4 Date: 10/05/2018

Subject Code: 11204252 Time: 2:00pm to 4:30pm

Subject Name: Electronic Communication - II Total Marks: 60

Instructions:

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.
- 4. Start new question on new page.

Q.1. A)	Essay type/ Brief note. (4x2) (Each of 04 marks)	(08)
	(a) Explain Types of wave guides.	
	(b) Discuss Similarities & Dis-similarities of wave guides with two Wair T.L.	
Q.1. B)	Answer the following questions. (Any two)	
	(a) Explain Maxwell's equation for In Frequency domain.	(04)
	(b) What are wave guide? Discuss the Characteristics of wave guide.	(04)
	(c) Explain Maxwell's equation for In time domain.	(04)
Q.2. A)	Answer the following questions.	
	(a) Give the definition of Antenna and write about antenna as transmitting device & receiving device.	(04)
	(b) Explain Half wave dipole antenna.	(04)
Q.2. B)	Answer the following questions. (Any two)	
	(a) Explain the radiation mechanism of Antenna.	(03)
	(b) Write the difference between wave velocity and group velocity.	(03)
	(c) Explain Effects of Ground on Antenna.	(03)
Q.3. A)	Essay type/Brief note. (4x2) (Each of 04 marks)	(08)
	(a) Write a note on IF amplifiers	
	(b) Classification of Radio receivers	
Q.3. B)	Answer the following questions. (Any two)	
	(a) Write a note on Superheterodyne receives	(04)
	(b) Explain AM receivers	(04)
	(c) Explain Straight Receiver	(04)
Q.4. A)	Answer the following questions.	
	(a) Write a note on Development of Radar	(04)
	(b) What are Target properties?	(04)
Q.4. B)	Answer the following questions. (Any two)	
	(a) Explain Antennas and Scanning	(03)
	(b) Write a note on Basic Pulsed Radar system	(03)
	(c) Explain Radar Performance Factors	(03)

Page **1** of **1**