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ECE 2024-25 PYQP

ECE ODD SEM 2024-25 PYQP

2025-12-17

ANTENNA DESIGN

Department of Electronics and Communication Engineering

SRM UNIVERSITY A.P

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SRM UNIVERSITY – AP, ANDHRA PRADESH

End Term Examination (RR), Dec 2025

[Question Paper ID: 010715]

Subject : ANTENNA DESIGN
Title
Batch : 2022
Degree : B.Tech.
Branch : ECE

Subject : ECE 306
Code
Max Marks : 50
Duration : 2 hours
QP Set : --

Section-1 (5 × 4 = 20 Marks)

Answer **all** Questions

	Marks	CO	BL
1. Define polarisation and radiation resistance. List two examples of each.	4	1	1
2. List out the different controls that can be used to shape the overall pattern of antenna array.	4	1	2
3. Explain the following: (i) Main lobes and side lobes (ii) Beamwidth.	4	2	2
4. Write the features of travelling wave antennas.	4	2	2
5. Define microstrip antenna. Write its advantages and applications of it.	4	1	1

Section-2 (3 × 10 = 30 Marks)

Answer **all** Questions

	Marks	CO	BL
6. Derive the expression for field strength of a uniform linear array.	10	3	4
7. Explain about radiation power and radiation resistance of current element. Give suitable example to illustrate.	10	3	2
8. What are power gain and reflectivity? Find the power gain and directivity of a horn antenna whose dimensions are 10 x 5 cm operating at a frequency of 6 GHz.	10	3	5

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