# Bharati Vidyapeeth's College Of Engineering For Women Department of Electronics & Telecommunication Engineering

#### **WAVE THEORY & ANTENNAS**

#### **CLASS TEST-I**

### [20010-11]

Max. Marks-25	Time- 1Hrs
Q.1. Explain the following parameters of antenna	[20-Marks]
1] Radiation pattern	
2] Antenna efficiency	
3] Directivity	
4] Beam width	
5] Radiation Intensity	
Q.4 Write a short note on	[10-Marks]
1] Yagi-uda antenna	
2]Horn antenna	
OR	
The radiated power density of radial componenet of antenna is	given by
Determine the total radiated power	[10-Marks]

## **Bharati Vidyapeeth's College Of Engineering For Women Department of Electronics & Telecommunication Engineering**

#### **WAVE THEORY & ANTENNAS**

#### **CLASS TEST-II**

#### [20010-11]

Time-1Hrs Max. Marks-25 Q.1 A] Derive & Explain fundamental equation for free space propagation [8-Marks] B] Draw the different layers presents in ionosphere and explain [7-Marks] OR Q.2 A] Explain the following terms in details [8-Marks] 1] Virtual Height 2] Skip distance 31 MUF **B**] Explain the space wave propagation with neat sketches [7-Marks] Q.3] Write a short note on any three [15-Marks] A] Broad side Array B] End-fire Array

C] Parabolic Reflector array

D] Microstrip antenna

# BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING FOR WOMEN,PUNE-43 DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION TE- I SEM-II (2010-11)

### **Unit Test-1**

## Wave Theory and Antenna Marks:30

1. Explain any Five terms (15)

- a) Radiation Pattern
- b) Radiation Power Density
- c) Radiation Intensity
- d) Directivity
- e) Antenna Efficiency
- f) HPBW
- 2. Write Short Notes on any Three (15)
  - a) Yagi Uda Antenna
  - b) Microstrip Antenna
  - c) Helical Antenna
  - d) Virtual Height
  - e) Skip Distance
  - f) MUF