rgpvonline.com

rgpvonline.com

[2]

Total No. of Questions: 87

rgpvonline.com

rgpvonline.com

[Total No. of Printed Pages: 2

Roll No .....

EC-604 (GS)

**B.E. VI Semester** 

Examination, May 2018

**Grading System (GS)** 

**Antenna and Wave Propagation** 

Time: Three Hours

Maximum Marks: 70

Attempt any five questions. Note: i)

ii) All questions carry equal marks.

1. Derive an expression for the power radiated by an current element.

2. Derive the expression for the power radiated by quarter wave monopole.

Explain Travelling wave antenna in detail with suitable diagram.

4. Explain the principle of pattern multiplication.

What is Yagi Uda antenna. Design a Yagi-Uda antenna of six elements to provide a gain of 12 dBi if the operating frequency is 200 MHz.

EC-604 (GS)

PTO

EC-604 (GS)

rgpvonline.com

rgpvonline.com

6. Explain the construction and principle of operation of log periodic antenna with suitable diagram.

7. Explain Dolph-Chebychev method of designing an array.

8. Answer any four of the following:

a) What is the effective area of a half wave dipole operating at 500 MHz?

b) Write in brief about the effect of earth on vertical pattern.

Write a short note on microstrip antenna.

What are planer arrays?

What are Ground waves, surface waves and space waves?

What is fading? What are its types?

\*\*\*\*\*

rgpvonline.com

rgpvonline.com

rgpvonline.com