Total No. of Questions: 8]

[Total No. of Printed Pages: 2

www.rgpvonline.com

www.rgpvonline.com

[2]

Explain about Narrow band, Wide band and Directional

http://www.a2zsubjects.com

www.rgpvonline.com

www.rgpvonline.com

Roll No

EC-7011 (GS)

B.E. VII Semester

Examination, December 2017

Grading System (GS)

Wireless Communication

Time: Three Hours

Maximum Marks: 70

www.rgpvonline.com

www.rgpvonline.com

www.rgpvonline.com

Note: i) Attempt any five questions.

www.rgpvonline.com

www.rgpvonline.com

ii) All questions carry equal marks

 a) Discuss about multipath propagation and spectrum limitation in wireless communication.

 Discuss about the free space loss, diffraction and scattering by rough surfaces during propagation.

2. a) Discuss about time invariant and variant two path models.

b) Discuss about WSSUS model.

a) Explain small scale fading with and without a dominant component.

 Explain Doppler spectra and temporal dependence of fading.

4. a) Explain the deterministic channel modeling methods.

b) Explain time domain measurements of channel sounding.

PTO

516

www.rgpvonline.com

Explain briefly about antennas for base stations.

6. a) Discuss about error probability in AWGN channels.

 Discuss about error probability in delay and frequencydispersive fading channels.

a) Discuss about error probability in fading channels with diversity reception.

 Explain the principle working of maximum likelihood sequence estimation (Viter bi detector).

8. Write short notes on any two of the following.

a) Ultra wide band channels

channel models.

b) Decision reedback equalizer

c) Micro diversity, macro diversity and simulcast.

517

EC-7011 (GS)

www.rgpvonline.com

www.rgpvonline.com

EC-7011 (GS)

www.rgpvonline.com