EV 313 R

B.Tech. DEGREE EXAMINATION, NOVEMBER 2009.

Seventh/Eighth Semester

ECE

SPECIAL TOPICS IN COMMUNICATION ENGINEERING

(For 2003 batches)

Time : Three hours Maximum : 75 marks

Answer FIVE questions, choosing ONE full from each Unit.

All questions carry equal marks.

UNIT I

1. Explain different line coding technique that helps to improve the quality of transmission in case of B-ISDN.

Or

2. Explain the ISDN protocol architecture in detail.

UNIT II

3. Explain Hap D protocol basic characteristics and its formats. (15)

Or

4. With a neat diagram explain SS7 architecture. (15)

UNIT III

5. With a neat diagram explain the ATM switching principles and OAM functions. (15)

Or

6. List out the types of ATM services and explain each type in detail. (15)

UNIT IV

7. Explain about the following :

(a) Tele net (5)

(b) Gopher (5)

(c) Email news group. (5)

Or

8. Explain in detail about the Internet resources and library card catalogues. (15)

UNIT V

9. Explain in brief about evolution of CDMA one to CDMA 2000 and also compare the major technical differences between CDMA 2000 and W-CDMA. (15)

Or

10. Explain with a suitable block diagram of GSM cellular radio network structure with respect to the framing and coding principles. (15)

ET 373 R

B.Tech. DEGREE EXAMINATION, NOVEMBER 2009.

Seventh Semester

ECE

ANTENNAS AND WAVE PROPAGATION

(For 2003 batches)

Time : Three hours Maximum : 75 marks

Answer FIVE questions choosing ONE full question from each Unit.

All questions carry equal marks.

UNIT I

1. Derive effective aperture dipole and aperture antennas in detail. (15)

Or

2. Explain the terms : (15)

(a) Gain

(b) Bandwidth

(c) Polarisation

(d) Reciprocity theorem

(e) Radiation resistance.

UNIT II

3. Explain in detail the fields for small loop antenna and its applications. (15)

Or

4. Explain the array of two point sources. (15)

UNIT III

5. Explain in detail :

(a) Horn antenna (7)

(b) Log periodic antenna. (8)

Or

6. (a) State Babinets principle and explain slot radiators. (7)

(b) Derive an expression for folded dipole. (8)

UNIT IV

7. Explain fading of signal, selective fading and diversity reception. (15)

Or

8. Explain refraction and reflection of sky wave by ionosphere. (15)

UNIT V

9. Explain LOS microwave relay links in detail. (15)

Or

10. Explain the term :

(a) Field pattern and gain of antennas (7)

(b) Radiation pattern. (8)
