

MRE ONLINE TEST

Email: Suritasah2k7@gmail.com (ca)
Date: _____

Time: 2:30 Hours

M-M: 50

Note attempt all questions.

1. Answer any two parts: (2x5=10)

(a) What are EM waves? Describe the types of polarization of EM waves.

(b) What do you understand by communication channel? Give the division of Radio Frequency Spectrum.

(c) What are the different Modes of propagation of EM waves.

2. Answer any four parts: (4x3=12)

(a) Give the difference between Horn Antenna and Parabolic Antenna.

(b) What are Broad Side and End Fire array?

(c) What are the effects of Inter-electrode capacitance, Lead Inductance

and Transit time on the signal frequency of conventional operation?

- (d) Discuss the working of Directional Coupler.
- (e) Explain the working and application of T.W.T.

3. Answer any three parts : ($3 \times 4 = 12$)

- (a) Discuss the working of Multicavity Magnetron.
- (b) What is the principle of operation of klystron? what are its types?
- (c) Explain the working of Gunn Diode.
- (d) Explain the working of IMPATT Diode.

4. Answer any two parts : ($2 \times 4 = 8$)

- (a) Discuss about circulators and Magic TEE.

(b) Discuss Microwave Link with a neat Block Diagram.

(c) Explain Troposcatter Links in troposphere propagation of EM waves.

5. Answer any two parts: (2x4=8)

(a) Brief on MTI Radar.

(b) Draw the Block diagram of satellite communication System and Explain.

(c) Write a short note on FAX.