

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech III Year I Semester Examinations, November/December - 2018
ANTENNAS AND WAVE PROPAGATION
 (Common to ECE, ETM)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A**(25 Marks)**

- 1.a) An antenna has a field pattern given by $E(\theta) = \cos^2\theta$ for $0^\circ \leq \theta \leq 90^\circ$. Find the half power beam width. [2]
- b) Define any three antenna parameters. [3]
- c) What is folded dipole antenna? [2]
- d) Why is an electromagnetic horn antenna a well matched antenna? [3]
- e) What is Fermat's principle? [2]
- f) List the advantages of Cassegrain feed. [3]
- g) Find the near and far field distances for a reflector antenna with diameter $D = 0.5\text{m}$ at 300 GHz. [2]
- h) Draw the radiation pattern of an array of four isotropic elements spaced by $\lambda/2$. [3]
- i) What is impact of imperfect earth on surface waves? [2]
- j) Calculate the maximum distance at which signal from transmitting antenna with 144 m height would be received by the receiving antenna of 25m height. [3]

PART - B**(50 Marks)**

- 2.a) Derive the Friis transmission equation and discuss the terms isotropic, omni-directional and principal patterns.
- b) A short antenna with a uniform current distribution in free space has $I_{dl} = 1 \times 10^{-3} \text{ A-m}$. Calculate the far field E_θ component for $\theta = 90^\circ$, $\Phi = 0^\circ$, $\lambda = 10 \text{ cm}$ and $r = 200 \text{ cm}$. [5+5]

OR

- 3.a) Derive the expression for power radiated and radiation resistance of alternating current element.
- b) A 50cm long vertical dipole operating at 30MHz radiates a maximum electric field of 15 mV/m at 5 km distance. Find its power radiated, input current and maximum magnetic field at the same distance. [5+5]

- 4.a) Explain the design considerations of Pyramidal Horns.

- b) Sketch the geometry of a helical antenna, and explain the principle of working in normal mode. [5+5]

OR

- 5.a) How a Rhombic antenna has high directivity? Explain by means of its geometrical structure.
- b) Draw the structure of helical antenna and explain its working in axial mode. [5+5]

Antennas And Wave Propagation Model Question Paper

Mainak Chowdhury, Arumita Biswas



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