Roll No

MEMT-302(A)

M.E./M.Tech., III Semester

Examination, December 2014

Microwave Transmission System (Elective - II) Time: Three Hours

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Maximum Marks: 70

- Note: i) Attempt any five questions.
 - ii) All questions carry equal marks.
- State and prove Poissons equations.
 - Determine the solution of Laplace equation in two dimentional space with infinite boundaries.
- Discuss about the surface currents due to polarized plane waves on dielectric discontinuities.
 - b) Discuss about the modes on homogeneous uniform guides with singly connected conductor boundaries
- Explain briefly about the circular polarization.
 - Discuss about the modes on homogeneous uniform guides with multi connected conductor boundaries.
- Discuss about the modal vectors and modal voltages.
 - Explain briefly about the Non homogeneous guides.
- Discuss about the multimode operation of fiber.
 - Discuss the principle working of circular and Andry perot resonators.

- Discuss about variational and perturbational method applied to wave-guides.
 - b) Discuss about loss less and non reciprocal networks.
- 7. a) What are the design considerations which should be taken into account while designing circuit with micro strip lines?
 - State and prove floquet theorem and its applications.
- 8. Write short notes on any two of the following
 - Hybrid modes
 - Microwave filters
 - iii) Periodic and slow wave structures.

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