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Roll No

MEMT - 301(A)M.E./M.Tech., III Semester

Examination, December 2014

Microwave Measurments (Elective - I)

Time: Three Hours

Maximum Marks: 70

- *Note:* i) Attempt any five questions.
 - ii) All questions carry equal marks.
- Discuss briefly about the microwave detectors.
 - Explain how to measure VSWR and Transmission line impedance.
- What is the effect of detection law on VSWR measurement?
 - Discuss the principle working of VSWR meter.
- Discuss briefly about the s-parameters of the network.
 - Discuss the principle working of Bolometer.
- What are the electronic methods for measuring microwave frequency?
 - Discuss briefly about the principle working of microwave counters.
- How'to measure high, medium and low microwave power?
 - Discuss the principle working of Microwave attenuator.

- 6. Explain briefly the following microwave components
 - Phase shifters
 - Directional couplers
- Explain how to measure antenna pattern and antenna impedance.
 - Explain briefly about the near field and far field errors.
- Write short notes on any two of the following
 - Slotted line
 - Calorie meters
 - Anechoic chambers.

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