

24144

B.Tech. (EE) 4th Semester F-Scheme

Examination, May-2019

ELECTRO MAGNETIC THEORY

Paper-EE-208-F

*Time allowed : 3 hours]*

*[Maximum marks : 100*

*Note : Question No. 1 is compulsory. Attempt any one question from each section.*

1. (a) What is Biot - Savart's Law ? 5
- (b) What is Poisson's and Laplace Equation ? 5
- (c) Explain Faraday's Law ? 5
- (d) Derive the relation between VSWR and Reflection Coefficient. 5

**Section-A**

2. (a) State and prove Stock's Theorem. 10
- (b) Differentiate between irrotational field and solenoidal field. 10
3. (a) State and prove Gauss divergence theorem. 15
- (b) Give the physical interpretation of the curl of a vector. 5

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