

No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : XXX27

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**B. Tech. Examination 2021-22**

(Even Semester)

**ELECTRO MAGNETIC FIELD THEORY***Time : Three Hours]**[Maximum Marks : 60***Note :-** Attempt all questions.**SECTION - A**

1. Attempt all parts of the following : 8 × 1 = 8
- (a) Obtain the unit vector in the direction from the origin towards the point P (3, -3, -2).
  - (b) Define line integral.
  - (c) Write down the physical significance of gradient.
  - (d) Define Coulomb's law.
  - (e) Define magnetic dipole.

**[ P. T. O.**