


DRAVIDIAN UNIVERSITY
Directorate of Distance Education (DDE)
KUPPAM – 517 426:: A.P.
Two year PG Examinations DDE
Course: I year Physics
Paper – V Mathematical methods of physics
Question Paper for Assignment

Answer any **THREE** of the following **FIVE** Questions.

3x10=30

1. Explain the Legendre equation for harmonic oscillator?
2. Define Fourier Series? Explain following applications of Fourier series?
 - a) Square wave
 - b) Full wave rectifier
3. Write the Cauchy – Riemann equations? Show that $f(z) = z^2$ is analytic?
4. Derive Simpson's rule?
5. a) Explain identifiers and key words with examples?
b) Explain Declaration of variables and storage classes?