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S.Y.B.Sc. (Semester - I)

PHYSICS

PH - 211 : Mathematical Methods in Physics

(Paper - I) (2008 Pattern)

Time : 2 Hours]

[Max. Marks : 40

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Use of calculator and log table is allowed.
- 4) Neat diagrams must be drawn wherever necessary.

Q1) Attempt all of the following :

- a) Define the term Homogeneity. [1]
- b) Determine the value of 'n' if [1]
 $\ln(n) = 1.7917 + i\pi$.
- c) If $\phi = 2xz^4 - x^2y$, Find $\nabla\phi$. [1]
- d) Define vector triple product. [1]
- e) State the condition of irrotational vector field. [1]
- f) Find the value of p which makes vectors [1]
 $\vec{A} = p\vec{i} + 2\vec{j} + 3\vec{k}$
 $\vec{B} = -\vec{i} + 5\vec{j} + p\vec{k}$ perpendicular
- g) If $dF = (y^2 - y + 2xy)dx + (x^2 - x + 2xy)dy$, Check up whether dF is an exact differential. [1]
- h) Define volume integral of a vector field. [1]
- i) Simplify $i + i^2 - i^3 + i^4 - i^5$. [1]
- j) State exponential form of complex number and represent it graphically. [1]

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Brendan G. Carr



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