## 2012

PHYSICS ( Major )

Paper: 2.1

Full Marks: 60

Time: 21/2 hours

The figures in the margin indicate full marks for the questions

GROUP-A

( Mathematical Methods )

( Marks : 35 )

- 1. Answer the following questions:
- 1×4=4
- (a) What are coordinate curves in curvilinear coordinate system?
- (b) What is the value of  $\oint_C \vec{\nabla} \cdot (\vec{\nabla} \times \vec{A}) d\vec{l}$ ?
- (c) Define scale factors in curvilinear coordinates.
- (d) Write the value of Γ(l).

# Gauhati University Physics Degree Semester Question Paper

**Tobias Bleicker** 

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