

2 0 1 2

PHYSICS

(Major)

Paper : 2.1

Full Marks : 60

Time : 2½ 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 $\Gamma(1)$.

Gauhati University Physics Degree Semester Question Paper

Albert A Gayle



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