

Reg. No. :

D 4625

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(For the candidates admitted from 2004 and onwards)

M.Sc. DEGREE EXAMINATION, MAY 2006.

First Semester

Physics

CLASSICAL MECHANICS STATISTICAL
MECHANICS

Time : Three hours

Maximum : 100 marks

SECTION A — (20 × 1 = 20 marks)

Answer ALL questions.

Choose the correct answer.

1. Action is defined as

(a) $\int \sum_j \dot{q}_j dp_j$

(b) $\int \sum_j p_i dq_j$ ✓

(c) $\int \sum_j \dot{p}_j dq_j$

(d) $\int \sum_j q_j dp_j$