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Reg. No. : .....

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(For the candidates admitted from 2002 and onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2003.

First Semester

Physics

QUANTUM MECHANICS — I

Time : Three hours

Maximum : 100 marks

SECTION A — (20 × 1 = 20 marks)

Answer ALL the questions.

Choose the correct answer :

1. If the vectors A and B are orthogonal,  $\langle A|B \rangle$  is equal to

(a) zero

(b) 1

(c) -1

(d) none of the above.