SPECTROPY-IIT FOUNDATION MENTOR'S MANUAL

Worksheet: LAWS OF EXPONENTS

Syllabus Topics Covered: Exponents, Powers

Answer Key and Detailed Solutions

1. Where 1 ? |a| < 10 and b is an integer.

(a) a^5

(b) a^6

Key: (a)

Solution:

?- Using the rule $???? ? ???? = ????+??$

?- 2^3 ? 2^5 = 2^{3+5}

?- 2^3 ? 2^5 = 2^8

?- Therefore, the correct answer is 2^8

?- Option (c) is the correct answer.