PHYSICS CLASS 11 BATCH

Basic Maths & Calculus

DPP-02

1. Find the value of $\log_{10} 10^{35}$

(1) 28 (2) 32
(3) 36 (4) 35

2. log 25 + log 4 – log 5 is equal to

(1) log 20 (2) log 25
(3) log 15 (4) log 10

3. $\log_e 8$ is equal to

(1) $\log_e 2$ (2) $2 \log_e 2$
(3) $3 \log_e 2$ (4) $4 \log_e 2$

4. $\log_e 15$ is equal to

(1) $\log_e 3 + \log_e 5$ (2) $\log_e 5 - \log_e 3$
(3) $\log_e 10 + \log_e 5$ (4) $\log_e 10 - \log_e 5$

5. $\log_2 x = 3$, find the value of x

(1) 8
(2) 16
(3) 32
(4) 64

6. $\log_3 x^2 = 4$, find the value of x

(1) 3 (2) 5
(3) 7 (4) 9

7. $\log_{10} (xy) = 2$, find the value of xy

(1) 500 (2) 300
(3) 100 (4) 400

8. $\log_2 (x) = -5$, find the value of x

(1) $\frac{1}{15}$ (2) $\frac{1}{35}$
(3) $\frac{1}{45}$ (4) $\frac{1}{32}$

9. Which of the following is true, if $a^x = b^y$?

(1) $\log a/\log b = x/y$ (2) $\log a/b = x/y$
(3) $\log a/\log b = y/x$ (4) None of the above

10. What is the value of $\log_2 16$?

(1) 8 (2) 4
(3) 1/8 (4) 16

ANSWER KEY

1.	(4)
2.	(1)
3.	(3)
4.	(1)
5.	(1)
6.	(4)
7	(3)
8.	(4)
9.	(3)
10.	(2)