

**UNIVERSITY OF CALICUT  
SCHOOL OF DISTANCE EDUCATION**

**B.A. ECONOMICS**  
(2013 Admission onwards)

**IV Semester**  
Core Course

**QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS II**

Question Bank & Answer Key

Choose the correct Answer from the bracket.

EXPONENTS

- Find the Value of  $2^3 \times 2^1$   
(a) 16                      (b) 8                      (c) 32                      (d) 64
- Find the value of  $(27)^{-4/3}$   
(a)  $\frac{1}{9}$                       (b)  $\frac{1}{27}$                       (c)  $\frac{1}{81}$                       (d)  $\frac{1}{3}$
- Find the value of  $(.001)^{1/3}$   
(a) .001                      (b) .1                      (c) .01                      (d) .0001
- $\frac{(a^6 b^{3/4} c^3)^{-2/3}}{(a^2 b^{-1/3} c^{-2})^{3/2}}$  is  
(a)  $a/a^7$                       (b)  $c/a^7$                       (c)  $c/a^{-7}$                       (d)  $b/a^7$
- The value of  $(-2)^{5/2}$  is  
(a)  $\sqrt{-32}$                       (b)  $\sqrt{32}$                       (c)  $\sqrt{16}$                       (d)  $\sqrt{-16}$

6.  $36x^7y^4 \div 4x^6y$  is

- (a)  $9x^2y^3$                       (b)  $9xy^3$                       (c)  $9y^3x^2$                       (d)  $9x^{7/6}y^4$

7.  $3 \times 3^5$  is equal to

- (a)  $9^5$                       (b)  $6^5$                       (c)  $3^5$                       (d)  $3^6$

8.  $8^3/2$  is equal to

- (a)  $8^3$                       (b)  $2^3$                       (c)  $2^8$                       (d)  $4^3$

9.  $10^0$  is equal to

- (a) 10                      (b) 1                      (c) 0                      (d) 100

10. If  $x^2=1$ ,  $x^{-2}$  is equal to

- (a) 2                      (b) -2                      (c) 0                      (d) 1

11.  $x^m \times x^n$  is \_\_\_\_\_

- (a)  $x^m$                       (b)  $x^{m+n}$                       (c)  $x^{mn}$                       (d)  $x^n$

12.  $a^m \times a^0$  is equal to

- (a)  $a^m$                       (b) 0                      (c) m                      (d)  $a^0$

13.  $2^{-3}$  is equal to

- (a) 8                      (b)  $1/8$                       (c) 2                      (d) 3

14.  $3 \times 27^x = 9^{x+4}$  value of x is

- (a) 7                      (b) 3                      (c) 9                      (d) 5

15.  $(x^5 \times x^{5/2})^{4/5}$  is

- (a)  $x^6$                       (b)  $x^5$                       (c)  $x^{5/2}$                       (d)  $x^{4/5}$

16.  $\left(\frac{x^5}{x^9}\right)^2$  is

- (a)  $1/x^9$                       (b)  $1/x^8$                       (c)  $x^9$                       (d)  $x^5$

17.  $(6a^3b^2)(8a^4b^5)$  is

- (a)  $8a^{12}b^{10}$                       (b)  $48a^7b^7$                       (c)  $48a^3b^2$                       (d)  $48a^4b^5$

18.  $a^m \div a^n$  is

- (a)  $a^{m/n}$                       (b)  $a^{m-n}$                       (c)  $a^{mn}$                       (d)  $a^{m+n}$

19.  $\left(\frac{10^8}{10^5}\right)^{1/3}$  is

- (a) 10                      (b)  $10^{8/3}$                       (c)  $10^{5/3}$                       (d)  $10^{8/5}$

20.  $\frac{32^{n+1} + 2^n}{2^{n+2} - 2^{n-1}}$  is equal to

- (a) 2                      (b) 3                      (c) 1                      (d) 4

### LOGARITHMS

21.  $\log_3 3 =$

- (a) 3                      (b) 9                      (c) 1                      (d) 0

22.  $\log_b a \times \log_a b$  is equal to

- (a) 1                      (b) a                      (c) b                      (d) 0