



D 21493-A **COMMERCE
FACTORY**

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Name.....

Reg. No.....

THIRD SEMESTER B.Com./B.B.A. DEGREE EXAMINATION, DECEMBER 2011

(CCSS)

Common Course

BC 3A 13—BASIC NUMERICAL SKILLS

(Common for B.Com./B.B.A.)

Time : Three Hours

Maximum Weightage : 30

I. Objective Type Questions. Answer *all* twelve questions :

Choose the correct answer :

1. The common difference of the A.P. 1, - 1, - 3, - 5 is :
(a) 1. (b) -1. (c) -2. (d) 2.
2. The quadratic equation $ax^2 + bx + c = 0$ has equal roots if :
(a) $b^2 - 4ac < 0$. (b) $b^2 - 4ac > 0$. (c) $b^2 - 4ac = 0$. (d) $b^2 - 4ac = 1$.
3. Which of the following statement is true ?
(a) $0 \in \{ \}$. (b) $0 \subset \{ \}$. (c) $0 \in \{0\}$. (d) $0 \subset \{0\}$.
4. Which of the following is true for unimodal asymmetrical sets of data ?
(a) Mean — Mode = 3 (Mean — Median). (b) Mean — Median = 3 (Mean — Mode).
(c) Mean — Median = 2 (Mean — Mode). (d) None of these.

Fill in the blanks :

5. If A is a matrix of order 4×3 and B is a matrix of order 3×5 , then the order of the product AB is _____.
6. The common ratio of the G.P. $1, \frac{1}{3}, \frac{1}{9}, \frac{1}{27}, \dots$ is _____.
7. If a set A contains n elements, then power set of A contains _____ elements.
8. In a Symmetric distribution, the relation between the Mean, Median and Mode is given by _____.

Answer the following :

9. Define zero (Null) matrix.
10. Write down any two measures of central tendency.
11. What is the simple interest for Rs. 10,000 at the rate of 15% per annum for 2 Years ?

12. $A = \begin{bmatrix} 0 & -1 & 5 \\ 2 & 8 & 9 \\ 1 & 0 & 8 \end{bmatrix}$ find $-5A$.

($12 \times \frac{1}{4} = 3$ weightage)

II. Short Answer Questions. Answer *all* questions :

13. Compute the product AB where $A = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 3 & 4 & 5 \end{bmatrix}$.

Turn over