



K15U 0263

Reg. No. :

BBA

Name :

III Semester B.B.A./B.B.A. (TTM)/B.B.A. R.T.M./B.B.M. Degree
(CCSS – 2014 Admn. – Regular) Examination, November 2015
General Course for BBA/BBA TTM/BBA RTM/BBM
3A 12 BBA/BBA (TTM)/BBA (RTM)/3A 11 BBM : NUMERICAL SKILLS

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer the 4 questions. **Each** question carries $\frac{1}{2}$ mark.

1. The imaginary number of a complex number $a + bi$
2. In a Venn diagram universal set represents by
3. A is a matrix of order 4×3 and B is a matrix of order 3×5 . What is the order of the matrix AB ?
4. A quadratic equation $ax^2 + bx + c = 0$ has equal roots if ($\frac{1}{2} \times 4 = 2$)

SECTION – B

Answer **any four** questions. **Each** question carries 1 mark.

5. What is present value ?
6. Define set.
7. What is arithmetic progression ?
8. Define matrices.
9. Write the formulae to find the n^{th} term of a GP.
10. Write DeMorgan's law. (4x1=4)

SECTION – C

Answer **any six** questions. **Each** question carries 3 marks.

11. What is compound interest ? And show the total interest is calculated.
12. Find the total interest and amount at the end of 8th year for 11,300 at 9% p.a. simple interest.

P.T.O.



13. If $A = \{1, 2, 3\}$, $B = \{2, 3, 4\}$, find

i) $A \cup B$

ii) $A \cap B$

iii) $A - B$

iv) $B - A$

14. Find the inverse of the matrix

$$A = \begin{bmatrix} 3 & 5 & 7 \\ 2 & -3 & 1 \\ 1 & 1 & 2 \end{bmatrix}$$

15. Solve by factorising $x^2 - 6x + 8 = 0$.

16. Find the three consecutive number in the AP, whose sum is 27 and their product is 648.

17. Which term of the series

$-2, 0, 2, 4, \dots$ is 102 ?

18. Solve the system of equations by elimination method :

$$12x + 9y = 33$$

$$12x - 8y = 16$$

(6×3=18)

SECTION - D

Answer **any two** questions. **Each** question carries **8** marks.

19. If the 5th and 10th term of a GP are 32 and 1024 respectively. Find the first term and common ratio.

20. In a group of 65 people, 40 like cricket, 10 like both cricket and tennis. How many like tennis ? How many like tennis only and not cricket ?

21. Solve the system of equations with the help of matrices.

$$2x - 3y = 3$$

$$4x - y = 11$$

(2×8=16)