

**Ba/Bs/Mat-101 (AK)**

**2016**

( 1st Semester )

**MATHEMATICS**

Paper No. : MAT-101

**( Calculus—I and Algebra—I )**

( PART : A—OBJECTIVE )

( Marks : 25 )

**KEY ANSWERS FOR OBJECTIVE**

SECTION—I

( Marks : 10 )

Put a Tick (✓) mark against the correct answer in the brackets provided : 1×10=10

1. (c)

2. (a)

3. (b)

4. (a)

5. (d)

( 2 )

- 6. (c)
- 7. (d)
- 8. (d)
- 9. (b)
- 10. (a)

SECTION—II

( Marks : 10 )

State whether the following statements are *True* or *False* by putting a Tick (✓) mark. Give a brief justification (any *five*) :  
2×5=10

- 1. True
- 2. True
- 3. True
- 4. False
- 5. True
- 6. True
- 7. True
- 8. True

( 3 )

SECTION—III

( Marks : 5 )

Fill in the blanks :

1×5=5

1.  $\frac{1}{3x^2} \cos x$

2.  $\frac{1}{2}$

3. 1

4.  $p^2 - 2q$

5.  $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

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