

Ba/Bs/Mat-101 (AK)

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(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. (a)

2. (b)

3. (d)

4. (c)

5. (c)

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(2)

6. (d)

7. (b)

8. (a)

9. (c)

10. (b)

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. *False*

2. *True*

3. *True*

4. *False*

5. *False*

6. *True*

(3)

SECTION—III

(Marks : 5)

Fill in the blanks :

1×5=5

1. $2^x (\log 2)^2$

2. continuous

3. $\frac{x}{2} \sqrt{a^2 - x^2} - \frac{a^2}{2} \sin^{-1} \frac{x}{a}$

4. 2

5. transpose
