

**Ba/Bs/Mat-401 (AK)**

**2 0 1 9**

( 4th Semester )

**MATHEMATICS**

Paper : MAT-401

( **Advanced Calculus—II and Analytical Geometry** )

**KEY ANSWERS FOR THE OBJECTIVE**

( PART : A—OBJECTIVE )

( Marks : 25 )

SECTION—I

( Marks : 10 )

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

1. (b)
2. (a)
3. (c)
4. (d)
5. (b)
6. (d)
7. (c)
8. (c)
9. (a)
10. (c)

/487K

( 2 )

SECTION—II

( Marks : 5 )

Fill in the blanks :

1×5=5

1. pedal, inverse

2.  $\int_{\alpha}^{\beta} \sqrt{r^2 + \left(\frac{dr}{d\theta}\right)^2} d\theta$

3.  $e^{-y}$

4.  $\frac{l}{r} = e \cos \theta + \cos(\theta - \alpha)$

5. cone

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