

**Ba/Bs/Mat-301 (AK)**

**2 0 2 0**

( 3rd Semester )

**MATHEMATICS**

Paper No. : MAT (P & H)-301

**( Advanced Calculus-I and Higher Trigonometry )**

**KEY ANSWERS FOR OBJECTIVES**

( PART : A—OBJECTIVE )

( Marks : 25 )

SECTION—I

( Marks : 10 )

Put a Tick  mark against the correct answer in the box  
provided : 1×10=10

1. (b)

2. (c)

3. (b)

4. (b)

5. (b)

6. (a)

**/98K**

( 2 )

7. (d)

8. (b)

9. (a)

10. (c)

SECTION—II

( Marks : 5 )

Fill in the blanks :

1×5=5

1.  $\sin xy \quad xy \cos xy$

2.  $a$

3.  $|z_1 - z_2| \quad |z_1| \quad |z_2|$

4.  $2 \cos \frac{\pi}{6} \quad i \sin \frac{\pi}{6}$

5.  $i \frac{\pi}{2}$

( 3 )

SECTION—III

( Marks : 10 )

State whether the following statements are *True* or *False*  
by putting a Tick (✓) mark with brief justification (any *five*) :

2×5=10

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

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