

Ba/Bs/Mat-301 (AK)

2 0 1 8

(3rd Semester)

MATHEMATICS

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

(Advanced Calculus-I and Higher Trigonometry)

KEY ANSWERS FOR OBJECTIVES

SECTION—I

(Marks : 10)

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

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

(2)

SECTION—II

(Marks : 5)

Fill in the blanks :

1×5=5

1. $\cos x = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \dots + (-1)^n \frac{x^{2n}}{(2n)!} + \dots$

2. $\frac{1}{2} (4n - 1)\pi i$

3. Continuous at (a, b)

4. $\left(\frac{\text{length of normal}}{\text{length of tangent}} \right)^2$

5. $\frac{1}{8}$
