

**BCA/MAT : 101 (AK)**

**2 0 2 0**

( 1st Semester )

**BACHELOR OF COMPUTER APPLICATION**

Paper No. : MAT-101

**( Mathematics—I )**

( PART : A—OBJECTIVE )

( Marks : 20 )

**KEY ANSWERS FOR OBJECTIVES**

*The figures in the margin indicate full marks for the questions*

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

(a) (i)  $m \ n$

(b) (i) 1

(c) (ii) transpose

(d) (iv) 120

(e) (iv) 1

( 2 )

(f) (ii)  ${}^{10}C_5$   ${}^8C_4$

(g) (iii) 8

(h) (iii) infinite sequence

(i) (iv) 0

(j) (iii) Gottfried Leibniz

2. State whether the following statements are *True (T)* or *False (F)* by putting a Tick (✓) mark :  $1 \times 5 = 5$

(a) *False*

(b) *False*

(c) *True*

(d) *True*

(e) *True*

3. Fill in the blanks :  $1 \times 5 = 5$

(a)  $\sec x$

(b)  $\operatorname{cosec} x$

(c)  $\sec^2 x$

(d)  $\operatorname{cosec}^2 x$

(e)  $\sec x \tan x$

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