**2019**

( 2nd Semester )

**BACHELOR OF COMPUTER APPLICATION**

Paper : MAT-201

**( Mathematics—II )**

( 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)* $(\phi \cup A) \cap (B \cup A) = A$

*(b)* *(i)* $\phi \subseteq A$

*(c)* *(iii)* $\frac{1}{13}$

*(d)* *(ii)* 0·7

*(e)* *(ii)* $\text{cosec}^2\theta$

*(f)* *(ii)* only $\sin\theta$ and $\text{cosec}\,\theta$ are positive

(g) (i) $-3$

(h) (ii) 0, 1, 1, 2, 3

(i) (i) $a, b, c$

(j) (i) $l = \cos\alpha$

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

(a) True

(b) False

(c) False

(d) True

(e) True

**3.** Fill up the blanks : 1×5=5

(a) 4

(b) $\frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}}, -\frac{1}{\sqrt{3}}$

(c) $\vec{r} = \vec{r}_1 + \lambda\vec{m}$ .

(d) $\cos\theta$

(e) $\frac{\sqrt{3}}{2}$

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