

**PRE BOARD EXAMINATION 2019 MARCH**

Bachelor Level/First Year/I Semester Full Marks: 10

Bachelor in Computer Application (BCA) Pass Marks:

Mathematics I (CAMT104) Time: 10 Min

Examination Date: 26th, Mar, 2019

*Candidates are required to give their answers in their own words as for as practicable.*

*The figures in the margin indicate full marks.*

**Student name:** ……………………………………

**Symbol number**: …………………………………

**Group ‘A’**

**Objective questions:**

**Attempt all questions: 10×1 = 10**

1. If n(A) = 10, n(B) = 8 then what is the maximum value of n(A∩B)

a. 18 b. 8 c. 13 d. 0

ans:………..

2. If A = [-3, 1), B = (0, 3] then AUB =?

a. {-3, 0, 1, 3} b. [-3, 0] c. [-3, 3] d. [-3, 3)

ans:……….

3. Modulus of is

a. 0 b. 1 c. -1 d. i

ans:………….

4. Domain of is

a. [-2, 2] b. {-2, 2} c. (-2, 2) d. (-2, 2]

ans:…………..

5. Find the sum of the series: 6 + 12 + 24 +………..+ 1536.

a.1566 b. 3000 c. 3066 d. 1536

ans:……………..

6. Inverse function f-I exists if f is

a. one to one b. bijective c. onto d. none

ans:…………

7. = ?

a. a+b+c b. 3abc c. 0 d. 1+a+b+c

ans:……………

8. + = 1, is the equation of

a. circle b. hyperbola c. parabola d. ellipse

ans:……….

9. From 10 persons, in how many ways can a committee of 4 be made when one particular person is always included?

a. 72 b. 84 c. 92 c. 100

ans:……….

10. If = (1, 2, 3), = (5, -2, 3) and = (2, 4, 6) then [ ] =?

a. -4 b. -2 c. 0 d. 3

ans:……….