

B.C.A. Ist Semester Examination,

February-2022

MATHEMATICS

(Paper : BCA-103)

Time allowed : 3 hours][Maximum marks : 80

Note: Attempt five questions in all. **Question No. 1 is compulsory** and attempt four more questions by selecting one question from each unit. All questions carry equal marks.

1. (i) Write down all the subsets of - $8 \times 2 = 16$
 $\{3, 0, \pi\}$

- (ii) If $\begin{bmatrix} x+3 & x+2y \\ z-1 & 4u-6 \end{bmatrix} = \begin{bmatrix} 0 & 7 \\ 3 & 2u \end{bmatrix}$, find the values
 x, y, z and u .

- (iii) Evaluate $\lim_{x \rightarrow 0} \frac{1 - \cos x}{x^2}$

- (iv) Find the domain of $y = \sqrt{x+5}$

- (v) Find dy/dx , when $y = \frac{x^2 + x + 1}{x + 5}$

- (vi) Find dy/dx , when $y = a^{3x-10}$

- (vii) Evaluate $\int \left(x + \frac{1}{x}\right)^2 dx$

- (viii) Evaluate $\int \cos^2 x dx$

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