

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 of 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 $\int \cos^2 x dx$

Allied Maths Question Paper First Sem

Sophie Goldie

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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The book delves into Allied Maths Question Paper First Sem. Allied Maths Question Paper First Sem is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Allied Maths Question Paper First Sem, encompassing both the fundamentals and more intricate discussions.

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This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Allied Maths Question Paper First Sem.

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