

Directorate of Distance Education
Swami Vivekanand Subharti University
I Year

BACHELOR OF ARTS

B.A(Mathematics)

B.A(Math)/ASSIGN/ I/SEM/A-2021-22

Assignments

(For JUNE Academic Batch-2021-22)

B.A(Math)-01, B.A(Math)-02,



**DIRECTORATE OF DISTANCE EDUCATION
SWAMI VIVEKANAND SUBHARTI UNIVERSITY**

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Detail of Program

zCourse Code	Name of the subject	Page No
B.A(Math)-1	Calculus I	3
B.A(Math)-2	Calculus II	4

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Course Code : BA
Course Title : Calculus I
Assignment No. : BA-Math-1/ A-2021-22

Maximum Marks : 15
Words : 100 words

Attempt all questions.

All questions carry equal marks.

Q.1. Find the area of the region bounded by the line $x = 3$ and the parabola $y^2 = 2x$.

Q.2 Show that the equation of second degree $5x^2 - 2xy + 5y^2 + 2x - 10y - 7 = 0$

Q.3 Show that The functions x, x^2, x^3 are linearly independent.

Q.4. Find the equation of the planes bisecting the angle between the planes $x+2y+2z=9$ and $4x-3y+12z+13=0$.

Q.5. Show that the points $(3, -4, 4)$, $(1, -1, 1)$ and $(-1, 2, -2)$ are collinear.

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Course Code : BA
Course Title : Calculus II
Assignment No. : BA-Math-2/ A-2021-22
Maximum Marks : 15
Words : 100 words

Attempt all questions.

All questions carry equal marks.

Q.1. Find the area of the region bounded by the line $x = 1$ and the parabola $y^2 = 6x$.

Q.2. Solve $y = ax + bn^3$

Q.3. Show that The functions x, x^2, x^3 are non-linear?

Q.4. Find the equation of the planes bisecting the angle between the planes $x+7y+3z=1$ and $2x-1y+3z+13=0$.

Q.5. Show that the points $(2, -1, 3)$, $(4, 3, 1)$ and $(3, 1, 2)$ are collinear.