Directorate of Distance Education
Swami Vivekanand Subharti University
I Year

BACHELOR OF ARTS

B.A(Mathematics)

B.A(Math)/ASSIGN/ II/SEM/C-2021

Assignments

(For December Calendar Batch-2021)

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

DIRECTORATE OF DISTANCE EDUCATION

SWAMI VIVEKANAND SUBHARTI UNIVERSITY

Subhartipuram, NH-58, Delhi-Haridwar-Meerut

By-Pass Road, Meerut– 250 005

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Detail of Program

Directorate of Distance Education
Swami Vivekanand Subharti University
I Year

Course Code   :   BA

Course Title   :   **Ordinary Differential Equations (ODE)**

Assignment No.   :   BA-Math-1/C-2021

Maximum Marks   :   15

Words   :   100 words

Attempt all questions.

All questions carry equal marks.

Q.1. Solve : $x^2 dy + (xy+y^2)dx=0$, given that y-1 when x=1

Q.2. Solve the equation; $(3x^2 + 6xy^2)dx+(6 x^2y+4y^3)dy=0$

Q.3. Solve the equation; $(2 x^2y-3y^4)dx+(3x^3+2xy^3)dy=0$

Q.4. Discuss the Solution of Legendre's Equation.

Q.5. Solve $(D^4+2D^2+1)y=x^2 cosx$

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Course Code   :   BA

Course Title   :   **Partial Differential Equations (PDE)**

Assignment No.   :   BA-Math-2/ C-2021

Maximum Marks   :   15

Words   :   100 words

Attempt all questions.

All questions carry equal marks.

Q.1. Write an essay on Singer Solution.

Q.2. Describe the Principle of Supervision.

Q.3. Describe the Method of Separation of Variables.

Q.4. Explain the Linear Partial Differential Equation.

Q.5. Fine the partial differential equation by elimination arbitrary functions

$$f(x^2+y^2+z^2)= x+y+z$$