

Time : 2:30 Hours]

[Maximum Marks : 50

NOTES :

- i) Attempt all questions.
- ii) Students are advised to specially check the Numerical Data of question paper in both versions. If there is any difference in Hindi Translation of any question, the students should answer the question according to the English version.
- iii) Use of Pager and Mobile Phone by the students is not allowed.



Q1) Attempt any Ten parts of the following:  
From part a to e select correct choice.

[10×1=10]

a) In the series 3, 8, 13, 18 ..... which term is 98?

- i) 18<sup>th</sup>
- ii) 20<sup>th</sup>

b) Value of the sixth term in the expansion of  $(3x + \frac{y}{2})^8$  is

- i)  $2154x^4y^4$
- ii) None
- iii)  $3125x^4y^4$
- iv)  $5152x^4y^4$

c) The value of the determinant  $\begin{vmatrix} 2 & -1 & 1 \\ 1 & 3 & -2 \\ 3 & -2 & 4 \end{vmatrix}$  is

- i) 51
- ii) 15
- iii) 55
- iv) None

d) Vectors  $m\hat{i} + \hat{j} - \hat{k}$  and  $-\hat{i} - \hat{j} - 2\hat{k}$  are perpendicular to one another. Value of m is

- i) 4
- ii) 0
- iii) 1
- iv) None

e) If  $\vec{a} = 2\hat{i} - \hat{j} + \hat{k}$  and  $\vec{b} = -2\hat{i} + 2\hat{j} - \hat{k}$  Value of  $\vec{a} \times \vec{b}$  is

- i)  $\hat{i} + \hat{j} - \hat{k}$
- ii)  $6\hat{i} + 7\hat{j} + \hat{k}$
- iii)  $3\hat{i} + \hat{j} + \hat{k}$
- iv)  $3\hat{i} + \hat{j} + \hat{k}$

f) Represent  $\frac{3+2i}{(4-5i)(2+i)}$  into the form of  $A + iB$

g) Simplify  $(\cos \theta + i \sin \theta)^n (\cos \theta - i \sin \theta)^n$

h) Find the value of  $\frac{Lx}{3x^2 + 7x - 18}$   $\frac{4x^2 + 3x - 11}{3x^2 + 7x - 18}$

i) Find the equation of tangent to the curve  $y = e^x$  at the point (0, 1)

j) Find the diff. coeff. of  $e^x \sin x$  w.r.t.  $x$ .

k) Find the minimum value of  $x^2 - 6x^2 + 9x + 2$

l) Find the value of  $\tan^{-1} \frac{1}{2} + \tan^{-1} \frac{1}{3}$

# Applied Mathematics 1 Diploma Paper

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## **Table of Contents Applied Mathematics 1 Diploma Paper**

1. Understanding the eBook Applied Mathematics 1 Diploma Paper
  - The Rise of Digital Reading Applied Mathematics 1 Diploma Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Applied Mathematics 1 Diploma Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Applied Mathematics 1 Diploma Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Applied Mathematics 1 Diploma Paper
  - Personalized Recommendations
  - Applied Mathematics 1 Diploma Paper User Reviews and Ratings
  - Applied Mathematics 1 Diploma Paper and Bestseller Lists
5. Accessing Applied Mathematics 1 Diploma Paper Free and Paid eBooks
  - Applied Mathematics 1 Diploma Paper Public Domain eBooks
  - Applied Mathematics 1 Diploma Paper eBook Subscription Services
  - Applied Mathematics 1 Diploma Paper Budget-Friendly Options
6. Navigating Applied Mathematics 1 Diploma Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Applied Mathematics 1 Diploma Paper Compatibility with Devices
  - Applied Mathematics 1 Diploma Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Applied Mathematics 1 Diploma Paper
  - Highlighting and Note-Taking Applied Mathematics 1 Diploma Paper
  - Interactive Elements Applied Mathematics 1 Diploma Paper
8. Staying Engaged with Applied Mathematics 1 Diploma Paper

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Applied Mathematics 1 Diploma Paper
9. Balancing eBooks and Physical Books Applied Mathematics 1 Diploma Paper
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Applied Mathematics 1 Diploma Paper
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Applied Mathematics 1 Diploma Paper
- Setting Reading Goals Applied Mathematics 1 Diploma Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Applied Mathematics 1 Diploma Paper
- Fact-Checking eBook Content of Applied Mathematics 1 Diploma Paper
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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