

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) 18th
- ii) 20th

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

Richard Bailey



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Parliamentary Papers Great Britain. Parliament. House of Commons,1911 **Sessional Papers** Great Britain. Parliament. House of Commons,1962 *Pulp and Paper Magazine of Canada* ,1927 **40 Years In Mathematical Physics** Ludvig Dmitrievich Faddeev,1995-10-09 This is a collection of Prof L D Faddeev s important lectures papers and talks Some of these have not been published before and some have for the first time been translated from Russian into English The topics covered correspond to several distinctive and pioneering contributions of Prof Faddeev to modern mathematical physics quantization of Yang Mills and Einstein gravitational fields soliton theory the many dimensional inverse problem in potential scattering the Hamiltonian approach to anomalies and the theory of quantum integrable models There are also two papers on more general aspects of the interrelations between physics and mathematics as well as an autobiographical essay Cambridge University Reporter University of Cambridge,1960 **Daily Graphic** Elizabeth Ohene,1980-02-19 **Pulp and Paper Magazine of Canada** ,1970 **The Navy List** Great Britain. Ministry of Defence,1974 *Sessional Papers* Québec (Province). Legislature,1910 **Calendar** University of Durham,1960 **The Paper Industry** ,1926 **Peterson's Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources 2012** Peterson's,2011-12-30 Graduate Programs in the Physical Sciences Mathematics Agricultural Sciences the Environment Natural Resources 2012 contains more than 2 900 graduate programs in 59 disciplines including agriculture and food sciences astronomy and astrophysics chemistry physics mathematics environmental sciences and management natural resources marine sciences and more This guide is part of Peterson s six volume Annual Guides to Graduate Study the only annually updated reference work of its kind provides wide ranging information on the graduate and professional programs offered by U S accredited colleges and universities in the United States and throughout the world Informative data profiles for more than 2 900 graduate programs in 59 disciplines including facts and figures on accreditation degree requirements application deadlines and contact information financial support faculty and student body profiles Two page in depth descriptions written by featured institutions offer complete details on specific graduate programs schools or departments as well as information on faculty research and the college or university Expert advice on the admissions process financial support and accrediting agencies Comprehensive directories list programs in this volume as well as others in the graduate series Up to date appendixes list institutional changes since the

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