NEB-GRADE XII

2079 (2022)

Mathematics

New course

For regular students (excluding technical stream's students)

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs. **Full Marks: 75**

Attempt **all** the questions.

Group 'A' [11×1=11]

Rewrite the correct options of each question in your answer sheet.

1. The property of cube roots of unity where ω is the cube root of unity is.
   A) $1 + \omega + \omega^2 = 0$ B) $\omega^2 + 1 = 0$ C) $\omega = -\omega^2$ D) $\omega + \omega^2 = 1$

2. Which of the following is true ?
   A) The set of integers under addition is an abelian group.
   B) The set of two order matrices is an abelian group under multiplication.
   C) The set of rational numbers under multiplication is an abelian group.
   D) The set of natural numbers is an abelian group under addition.

3. $\sin^{-1}x$ is equal to
   A) $\cos^{-1}\sqrt{x^2-1}$
   B) $\tan^{-1}\left(\sqrt{1-x^2}\right)$
   C) $\csc^{-1}\sqrt{1-x^2}$
   D) $\cos^{-1}\sqrt{1-x^2}$

4. If $\tan x + \frac{1}{\sqrt{3}} = 0$ is the trigonometric equations then the general value for x is
   A) $n\pi \pm \frac{\pi}{6}$
   B) $2n\pi + \frac{\pi}{6}$
   C) $2n\pi + \frac{5\pi}{6}$
   D) $n\pi + \frac{5\pi}{6}$

5. If $\vec{a}$ and $\vec{b}$ are two vectors then the value of $(\vec{a} - \vec{b}) \times (\vec{a} + \vec{b})$ is equal to
   A) $2(\vec{a} \times \vec{b})$
   B) $\vec{a}^2 - \vec{b}^2$
   C) $\vec{a}^2(\vec{a} \times \vec{b})$
   D) $2(\vec{a}^2 - \vec{b}^2)$

7. The range of the probability of any event A is
   A) $0 \le P(A) \le 1$
   B) $0 \le P(A) < 1$
   C) $-1 \le P(A) \le 1$
   D) $0 < P(A) < 1$

8. Tangent to the curve $y = x^3$ at $x = 2$ and $x = -2$ are
   A) parallel B) perpendicular C) intersecting D) Does not exist

9. The integrating factor of differential equation $\sin x \frac{dy}{dx} + y\cos x = x \sin x$ is
   A) $\sin x$ B) $\cos x$ C) $\tan x$ D) $\cot x$

10. During the process of solving system of linear equation in x, y, z if we get $0 \times z = 0$, then the system is
    A) inconsistent and has no solution
    B) consistent and has unique solution
    C) inconsistent and but has no solution
    D) consistent and has infinitely solution

11. A force acts on a body of mass m for a time 'Y' and changes its velocity from 'u' to 'v'. The change in momentum of the body in time t is
    A) $\frac{mu - mv}{t}$
    B) $\frac{mv - mu}{t}$
    C) $\frac{tm - tv}{uv}$
    D) $\frac{u - v}{mt}$

Or

In a input-output model if A=input coefficient of matrix, I be unit matrix then each diagonal elements of the (I-A) is positive and |I-A| is positive then the system is called
    A) viable B) unviable C) unit elastic D) elastic

Group 'B' [8×5=40]

12. a) Define binomial expansion. (1)
    b) Find the middle term of $(2 + 3x)^{10}$ (2)
    c) Find the sum of n binomial coefficients in the expansion of $(1 + x)^n$ when $x = 1$. (1)
    d) What do you mean by argument of complex number ? (1)

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Scientific and Technical Aerospace Reports ,1991   **NASA Technical Memorandum** ,1975   *K-12 Math and Science Education, what is Being Done to Improve It?* United States. Congress. House. Committee on Science,United States. Congress. House. Committee on Science. Subcommittee on Technology,1999   **NASA's Human Space Exploration** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space,2012   **Classroom Connect Newsletter** ,2002   **Commerce Business Daily** ,1997-12-31   *Ordered Algebraic Structures and Related Topics* Fabrizio Broglia,2017 Contains the proceedings of the international conference Ordered Algebraic Structures and Related Topics held in October 2015 at CIRM Luminy Marseilles Papers cover topics in real analytic geometry real algebra and real algebraic geometry including complexity issues model theory of various algebraic and differential structures Witt equivalence of fields and the moment problem   **Poole's Index to Periodical Literature: 1802-1881** William Frederick Poole,1882   *The academy* ,1895   **The Academy and Literature** ,1895   **School Library Journal** ,1995   **Intelligent Information and Database Systems** Ngoc Thanh Nguyen,Tien Khoa Tran,Ualsher Tukayev,Tzung-Pei Hong,Bogdan Trawiński,Edward Szczerbicki,2022-12-08 This book constitutes the refereed proceedings of the 14th Asian Conference on Intelligent Information and Database Systems ACIIDS 2022 held Ho Chi Minh City Vietnam in November 2022 The 113 full papers accepted for publication in these proceedings were carefully reviewed and selected from 406 submissions The papers of the 2 volume set are organized in the following topical sections data mining and machine learning methods advanced data mining techniques and applications intelligent and contextual systems natural language processing network systems and applications computational imaging and vision decision support and control systems and data modeling and processing for industry 4 0 The accepted and presented papers focus on new trends and challenges facing the intelligent information and database systems community   *Algorithmic and Experimental Methods in Algebra, Geometry, and Number Theory* Gebhard Böckle,Wolfram Decker,Gunter Malle,2018-03-22 This book presents state of the art research and survey articles that highlight work done within the Priority Program SPP 1489 Algorithmic and Experimental Methods in Algebra Geometry and Number Theory which was established and generously supported by the German Research Foundation DFG from 2010 to 2016 The goal of the program was to substantially advance algorithmic and experimental methods in the aforementioned disciplines to combine the different methods where necessary and to apply them to central questions in theory and practice Of particular concern was the further development of freely available open source computer algebra systems and their interaction in order to create powerful new computational tools that transcend the boundaries of the individual disciplines involved The book covers a broad range of topics addressing the design and theoretical foundations implementation and the successful application of algebraic algorithms in order to solve mathematical research problems It offers a valuable resource for all researchers from graduate students through established experts who are interested in the

computational aspects of algebra geometry and or number theory **Lady Astronauts, Lady Engineers, and Naked Ladies** Karin Hilck,2019-07-08 The book Lady Astronauts Lady Engineers and Naked Ladies is a gender history of the American space community and by extension a social history of American society in the twentieth century during the Cold War In order to expand and differentiate the prevalent postwar narrative about gender relations and cultural structures in the United States the book analyzes several different groups of women interacting in different social spaces within the space community It therewith grants insight into the several layers of female participation and agency in the community and the gender and race based obstacles and hurdles the female prospective astronauts scientists engineers artists administrators writers hostesses secretaries and wives were faced with at NASA and in the space industry In each chapter a different social space within the space community is analyzed The spaces where the women lived and worked are researched from a media individual and institutional angle ultimately revealing the differing gender philosophies communicated in the public sphere and the space community workplaces by government and space community officials While women were publicly encouraged to participate in the American space effort to beat the Soviet Union in the race to the moon women had to deal with gender based barriers which were integral to the structures of the space community just as they were an intrinsic component of all societal structures in the United States in the 1960s The female space workers who were often perceived as disrupters of the prevalent social order in the space community and discriminated by some of their male colleagues and bosses on a personal basis still managed to assert themselves They molded pockets of agency in the space community workspaces without the facilitation of regulations on the part of NASA that might have provided them with easier access or more agency Thus the space community a place of technological innovation was not necessarily also a place of social innovation but a community with a government agency at its center that mainly mirrored the current changing social order conventions and policies in the 1960s as well as in the 1970s and 1980s Nevertheless the women presented in this book were instrumental in advancing and consolidating the social transformation that happened within the space community and the United States and therefore make intriguing subjects of research Thus this systematic analysis of the connection between gender space and the Cold War adds a new dimension to space history as well as expands the discourse in American history about gender relations and the opportunities of women in the twentieth century **Sally Ride** Jackie Pérez,2025-03-06 Showcases the life of the first American woman in space from her childhood to her accomplishments as a tennis star and her pioneering achievements as an astronaut and science educator Explore Sally Ride s life and contributions and understand the historical context of landmark events movements and women who paved the way for her success Ride s groundbreaking achievement represented a moment of triumph in an ongoing struggle for gender equality propelled by pivotal events such as the 1960 s Civil Rights Movement advocating for equal rights for all individuals and the enactment of Title IX in 1972 ensuring gender equity in education Written for students of American and women s history this examination of Ride s life places each milestone in its

historical context This illuminates not only the world she lived in but also her enduring significance to the contemporary challenges women and LGBTQ people continue to face in their efforts to pursue careers in STEM A detailed chronology curated sidebars throughout chronological sequencing and primary source documents make this a singular and necessary first stop reference resource on Ride s life and work **Some Mathematical Questions in Biology, X** Simon A. Levin,1979 **Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 2001** United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies,2000 *The Use of Data in School Counseling* Trish Hatch,Julie Hartline,2021-07-29 This edition provides school counselors with new ways for moving from reactive to proactive and from random to intentional counseling By using data to determine what all students deserve to receive and when some students need more it offers effective ways to provide proactive school counseling services stay accountable and advocate for systemic change Includes data analysis intervention strategies methods aligned with standards examples artifacts and other tools **She Does Math!** Marla Parker,1995-12-31 She Does Math presents the career histories of 38 professional women and math problems written by them Each history describes how much math the Author took in high school and college how she chose her field of study and how she ended up in her current job Each of the women present several problems typical of those she had to solve on the job using mathematics There are many good reasons to buy this book It contains real life problems Any student who asks the question Why do I have to learn algebra or trigonometry or geometry will find many answers in its pages Students will welcome seeing solutions from real world jobs where the math skills they are learning in class are actually used The book provides strong female role models and supplies practical information about the job market Students learn that they can only compete for these interesting well paying jobs by taking mathematics throughout their high school and college years The book demonstrates the surprising variety of fields in which mathematics is used Who should have this book Your daughter or granddaughter your sister your former math teacher your students and young men too They want to know how the math they study is applied and this book will show them *1981 NASA Authorization* United States. Congress. House. Committee on Science and Technology. Subcommittee on Space Science and Applications,1980

J S C Final Math Question Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**J S C Final Math Question**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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J S C Final Math Question Introduction

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