

## বীজগণিত অংশ

বীজগণিতীয় সূত্রাবলি ও প্রয়োগ থেকে ১টি, বীজগণিতীয় ভাষ্যে থেকে ১টি এবং সরল সমস্যাকরণ থেকে ১টি করে মোট ৩টি প্রশ্ন থাকবে; যেকোনো ২টির উত্তর নিতে হবে।

অধ্যায় ০৪

### বীজগণিতীয় সূত্রাবলি ও প্রয়োগ

Step ১ ক্রম প্রথমত বিশ্লেষণের মাধ্যমে সাজেশন

৭৩

১. প্রশ্ন ১।  $m^2 - 4m + 1 = 0$ । [অনু. ৪.১]

ক.  $m + \frac{1}{m}$  এর মান নির্ণয় কর। ২

খ.  $\frac{m^4 + 1}{m^2}$  এর মান নির্ণয় কর। ৪

গ. দেখাও যে,  $m^4 = 194 - \frac{1}{m^2}$ । ৪

[মনিপুর উচ্চ বিদ্যালয় ও কলেজ, মিরপুর, ঢাকা]

উত্তরসূত্র : পৃষ্ঠা ১০৩-এর ৯নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

২. প্রশ্ন ২।  $a^2 + 1 = 4a$  হলে, [অনু. ৪.১]

ক.  $(a - \frac{1}{a})^2$  - কত? ২

খ. দেখাও যে,  $a^4 + \frac{1}{a^4} = 194$ । ৪

গ.  $a^4 - \frac{1}{a^4}$  এর মান নির্ণয় কর। ৪

[কুমিল্লা জিলা স্কুল, কুমিল্লা]

উত্তরসূত্র : পৃষ্ঠা ১০৪-এর ১২নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

৩. প্রশ্ন ৩।  $P = a + b + c$ ,  $Q = a^2 - a\sqrt{3} + 1$ ,  $R = x^2 + \frac{1}{x}$  হলে, [অনু. ৪.১]

ক. প্রমাণ কর যে,  $a^2 + b^2 + c^2 = 3abc$ , যখন  $P = 0$ । ২

খ.  $(a^2 + \frac{1}{a^2}) + (b^2 + \frac{1}{b^2})$  এর মান নির্ণয় কর, যখন  $Q = 0$ । ৪

গ. প্রমাণ কর যে,  $x = \frac{3 + \sqrt{3}}{2}$ , যখন  $R = 18$ । ৪

[শেখ হাসিনা মেমোরিয়াল হাইস্কুল, ঢাকা]

উত্তরসূত্র : পৃষ্ঠা ১০১-এর ২০নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

৪. প্রশ্ন ৪।  $a^2 - 2a = 1$  (যেখানে  $a > 0$ ) হলে, [অনু. ৪.২]

ক.  $(a - \frac{1}{a})$  এর মান নির্ণয় কর। ২

খ. দেখাও যে,  $a^4 - 14a^2 - 1 = 0$ । ৪

গ.  $a^4 + \frac{1}{a^4} = 34$  প্রমাণ কর। ৪

[ফকির মন্ডল বঙ্গবন্ধু হাইস্কুল, ঢাকা]

উত্তরসূত্র : পৃষ্ঠা ১০৩-এর ২৭নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

৫. প্রশ্ন ৫।  $x^2 - 3x = 1$ ,  $x > 0$  হলে— [অনু. ৪.২]

ক.  $x - \frac{1}{x}$  এর মান নির্ণয় কর। ২

খ. প্রমাণ কর যে,  $x^4 + \frac{1}{x^2} = 119$ । ৪

গ. দেখাও যে,  $x^6 - 36x^3 = 1$ । ৪

[শেখ হাসিনা মেমোরিয়াল হাই স্কুল, কাজলাই]

উত্তরসূত্র : পৃষ্ঠা ১০৮-এর ৩৬নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

৬. প্রশ্ন ৬।  $x^2 - 5x + 1 = 0$  একটি বীজগণিতীয় সমীকরণ। [অনু. ৪.২]

ক.  $(x + \frac{1}{x})$  এর মান নির্ণয় কর। ২

খ.  $(x^2 - \frac{1}{x^2})$  এর মান নির্ণয় কর। ৪

গ. প্রমাণ কর যে,  $(x^2 + \frac{1}{x^2})(x^2 + \frac{1}{x^2}) = 2530$ । ৪

[ইন্ডিয়ান সার্বজনিক স্কুল ও কলেজ, চট্টগ্রাম]

উত্তরসূত্র : পৃষ্ঠা ১০২-এর ৪৭নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

৭. প্রশ্ন ৭।  $a$  এবং  $b$  এর লুপসাক বিশ্লিষ্ট রাশির সমষ্টি  $a + b$ । [অনু. ৪.২]

ক.  $x^2 - x - (b^2 + 3b + 2)$  কে উৎপাদকে বিশ্লেষণ কর। ২

খ. প্রদত্ত তথ্যকে সমীকরণে প্রকাশ করে  $\frac{a^2 - 1}{a}$  এর মান নির্ণয় কর। ৪

গ. প্রমাণ কর :  $8a^3 + \frac{8}{a^3} = 416$ । ৪

[রাংপুর জিলা স্কুল, রাংপুর]

উত্তরসূত্র : পৃষ্ঠা ১০৪-এর ৫০নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

৮. প্রশ্ন ৮।  $y^2 - 2y - 1 = 0$  এবং  $y^2 + y^2 + 1$  [অনু. ৪.২]

ক.  $2y - 1$  কে উৎপাদকে বিশ্লেষণ কর। ২

খ. ১ম সমীকরণ থেকে  $y^2 + \frac{1}{y^2}$  এর মান নির্ণয় কর। ৪

গ.  $(\frac{y^2 - 1}{y})(y + \frac{1}{y})$  এর মান বের কর। ৪

[মিনাজপুর জিলা স্কুল, মিনাজপুর]

উত্তরসূত্র : পৃষ্ঠা ১০৪-এর ৫৩নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

৯. প্রশ্ন ৯।  $x^2 - x - (a^2 + 3a + 2)$  একটি বীজগণিতীয় রাশি। [অনু. ৪.৩]

ক.  $a - 1$  হলে রাশিটিকে উৎপাদকে বিশ্লেষণ কর। ২

খ. উদ্ভীপকের রাশিটিকে  $x^2 + (p + q)x + pq$  আকারের রাশিতে প্রকাশ কর। ৪

গ.  $x$  অংশ হতে প্রদত্ত উৎপাদকে উৎপাদকে বিশ্লেষণ কর। ৪

[বগুড়া জিলা স্কুল, বগুড়া]

উত্তরসূত্র : পৃষ্ঠা ১০৬-এর ৬৭নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

১০. প্রশ্ন ১০।  $P = 3a^2 - 16a - 12$ ,  $Q = 3a^2 + 5a + 2$  এবং  $R = 3a^2 - x - 2$ । [অনু. ৪.৪]

ক.  $\frac{x^2 + 3x - 4}{x^2 - 7x + 12} \times \frac{x^2 - 9}{x^2 - 16}$  এর মান নির্ণয় কর। ২

খ.  $R = 0$  হলে  $\frac{27x^3 - 8}{x}$  এর মান নির্ণয় কর। ৪

গ.  $P, Q, R$  এর ল.সা.গু. নির্ণয় কর। ৪

[মহিলা সার্বজনিক স্কুল উচ্চ বিদ্যালয়, ঢাকা]

উত্তরসূত্র : পৃষ্ঠা ১৭৭-এর ১০নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

১১. প্রশ্ন ১১।  $6x^2 - x - 1$ ,  $3x^2 + 7x + 2$ ,  $2x^2 + 3x - 2$  তিনটি বীজগণিতীয় রাশি। [অনু. ৪.৪]

ক. ৩য় রাশির উৎপাদকে নির্ণয় কর। ২

খ. ১ম, ২য় ও ৩য় রাশির ল.সা.গু. নির্ণয় কর। ৪

গ.  $x^2 + y^2 - z^2 + 3x^2y^2z^2 = 0$  হলে প্রমাণ কর যে,  $x^2 + y^2 = z^2$ । ৪

[ফকির মন্ডল বঙ্গবন্ধু উচ্চ বিদ্যালয়, রাংপুর]

উত্তরসূত্র : পৃষ্ঠা ১৭৯-এর ১৬নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

১২. প্রশ্ন ১২। নিচে চারটি বীজগণিতীয় রাশি দেওয়া আছে— [অনু. ৪.৪]

(i)  $a^3 - b^3$  (ii)  $a^3 + a^2b^2 + b^3$

(iii)  $a^2b^2 + a^2b^3 + ab^4$  (iv)  $(a^2 + b^2)$

ক. (i)নং রাশিটিকে উৎপাদকে বিশ্লেষণ কর। ২

খ. (i), (ii) ও (iii) এর ল.সা.গু. নির্ণয় কর। ৪

গ. চারটি রাশির ল.সা.গু. নির্ণয় কর। ৪

[চট্টগ্রাম কলেজিয়েট স্কুল, চট্টগ্রাম]

উত্তরসূত্র : পৃষ্ঠা ১৮০-এর ১৮নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

# Jsc 13 Exam Math Suggestion

**E Durkheim**



### Jsc 13 Exam Math Suggestion:

**Scientific and Technical Aerospace Reports** ,1989 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

**Grieve's Modern Musculoskeletal Physiotherapy E-Book** Deborah Falla,Jeremy Lewis,Christopher McCarthy,Chad E Cook,Michele Sterling,2024-04-02 Originally edited by Gregory Grieve a founder of modern manual therapy the fifth edition of Grieve s Modern Musculoskeletal Physiotherapy continues to offer contemporary evidence models of diagnosis and practice that make this one of the most highly respected reference books for physiotherapists This edition has been fully updated to provide an overview of the latest science in a rapidly evolving field It includes detailed directions for research informed patient care for a range of musculoskeletal disorders as well as up to date information on the global burden research methodologies measurements and principles of assessment and management A new international editorial board with experience in both research and clinical practice bring a truly comprehensive perspective to this book meaning those practising musculoskeletal physiotherapy today will find it highly clinically relevant to their work Edited by an internationally recognised editorial board brings expertise in both research and clinical practice Fully updated with the latest published evidence Clear guidance on evidence based contemporary practice Management of conditions relating to both the vertebral column and peripheral joints Updated reviews on the science and practice of a wide range of treatment modalities Principles of effective communication screening clinical reasoning lifestyle considerations behavioural change and self management Summary boxes and clinical tips to support clinical assessment and management More than 300 figures and illustrations Global burden of musculoskeletal disorders including history epidemiology and new models of care A range of new research methodologies including N of 1 research designs systematic reviews and meta analyses population based cohort studies consensus research and response analyses in musculoskeletal research How to navigate the endless wave of information and assess different levels of evidence New measures New chapter on cost analyses and value based care Digital rehabilitation methods

*Data Engineering and Communication Technology* K. Ashoka Reddy,B. Rama Devi,Boby George,K. Srujan Raju,2021-05-23 This book includes selected papers presented at the 4th International Conference on Data Engineering and Communication Technology ICDECT 2020 held at Kakatiya Institute of Technology Science Warangal India during 25 26 September 2020 It features advanced multidisciplinary research towards the design of smart computing information systems and electronic systems It also focuses on various innovation paradigms in system knowledge intelligence and sustainability which can be applied to provide viable solutions to diverse problems related to society the environment and industry

**Hoard's Dairyman** ,1923 **The Scottish Farmer** ,1923 **Cumulated Index Medicus** ,1997 **Complete Book of Colleges** Princeton Review (Firm),2008 A comprehensive guide that profiles all of the four year colleges in the U S this work is packed with the information that prospective applicants need to know including the

details on academics admissions requirements tuition and fees and more      **Metallurgical Abstracts** Institute of Metals,1961      **Complete Book of Colleges, 2007 Edition** Princeton Review,2006-08-08 Lists more than 1 600 colleges and universities and provides information about admissions and academic programs      *Graduate Programs in Business, Education, Health, Information Studies, Law and Social Work* Peterson's Guides Staff,Peterson's,2007-12 The six volumes of Peterson s Annual Guides to Graduate Study the only annually updated reference work of its kind provide wide ranging information on the graduate and professional programs offered by accredited colleges and universities in the United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting bodies Books 2 through 6 are divided into sections that contain one or more directories devoted to individual programs in a particular field Book 6 contains more than 19 000 programs of study in 147 disciplines of business education health information studies law and social work      Peterson's Graduate Programs in Business, Education, Health, Information Studies, Law and Social Work Peterson's Guides Staff,Peterson's Guides, Inc,2006-12 Detailed program listings of accredited graduate programs in the physical sciences math and agricultural sciences      **The Complete Book of Colleges** ,2007      Profiles of American Colleges, Northeast Barron's Educational Series,2002-08-10 All entries in this newly revised directory of accredited four year colleges are taken directly from the brand new Barron s Profiles of American Colleges 25th Edition Complete and up to date profiles include details on admission requirements academic programs tuitions and other fees sources of available financial aid library facilities computer facilities descriptions of campus environments athletic facilities extracurricular activities e mail addresses fax numbers web sites and more This directory covers all colleges and universities in Connecticut Delaware the District of Columbia Maine Maryland Massachusetts New Hampshire New Jersey New York Pennsylvania Rhode Island and Vermont      **American Universities and Colleges** ,2006      **Government Reports Announcements & Index** ,1982  
**Mathematics for Common Entrance 13+ Exam Practice Answers** David E. Hanson,2015-08-28 Exam Board ISEB Level 13 Subject Mathematics First Teaching September 2015 First Exam Autumn 2016 This complete set of answers to Mathematics for Common Entrance 13 Exam Practice Questions includes worked examples and diagrams to demonstrate how to achieve top grades in ISEB Common Entrance and other entrance exams at 13 Saves time marking work and identifies areas requiring further attention Includes ISEB Common Entrance mark scheme and advice for achieving top marks Suitable for ISEB 13 Mathematics Common Entrance exams taken from Autumn 2016 onwards Also available to purchase from the Galore Park [www.galorepark.co.uk](http://www.galorepark.co.uk) Mathematics for Common Entrance 13 Exam Practice Questions Mathematics for Common Entrance 13 Revision Guide Mathematics for Common Entrance One Mathematics for Common Entrance One Answers Mathematics for Common Entrance Two Mathematics for Common Entrance Two Answers Mathematics for Common Entrance Three Extension Mathematics for Common Entrance Three Extension Answers

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<https://staging.conocer.cide.edu/book/Resources/HomePages/Mazda%205%20Sport%20Haynes%20Manual.pdf>

### **Table of Contents Jsc 13 Exam Math Suggestion**

1. Understanding the eBook Jsc 13 Exam Math Suggestion
  - The Rise of Digital Reading Jsc 13 Exam Math Suggestion
  - Advantages of eBooks Over Traditional Books
2. Identifying Jsc 13 Exam Math Suggestion
  - 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 Jsc 13 Exam Math Suggestion
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jsc 13 Exam Math Suggestion
  - Personalized Recommendations
  - Jsc 13 Exam Math Suggestion User Reviews and Ratings
  - Jsc 13 Exam Math Suggestion and Bestseller Lists

5. Accessing Jsc 13 Exam Math Suggestion Free and Paid eBooks
  - Jsc 13 Exam Math Suggestion Public Domain eBooks
  - Jsc 13 Exam Math Suggestion eBook Subscription Services
  - Jsc 13 Exam Math Suggestion Budget-Friendly Options
6. Navigating Jsc 13 Exam Math Suggestion eBook Formats
  - ePub, PDF, MOBI, and More
  - Jsc 13 Exam Math Suggestion Compatibility with Devices
  - Jsc 13 Exam Math Suggestion Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Jsc 13 Exam Math Suggestion
  - Highlighting and Note-Taking Jsc 13 Exam Math Suggestion
  - Interactive Elements Jsc 13 Exam Math Suggestion
8. Staying Engaged with Jsc 13 Exam Math Suggestion
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Jsc 13 Exam Math Suggestion
9. Balancing eBooks and Physical Books Jsc 13 Exam Math Suggestion
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Jsc 13 Exam Math Suggestion
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Jsc 13 Exam Math Suggestion
  - Setting Reading Goals Jsc 13 Exam Math Suggestion
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Jsc 13 Exam Math Suggestion
  - Fact-Checking eBook Content of Jsc 13 Exam Math Suggestion
  - 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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