

RASHTRIYA INDIAN MILITARY COLLEGE, DEHRADUN
ENTRANCE EXAMINATION - JUN 2022
SUBJECT: MATHEMATICS

MM: 200

TIME: 1Hr 30 Mins

Instructions:

- निर्देश:
1. Attempt total 30 questions. Write your answers separately on the answer sheet to be provided at the exam centre. / नीचे दिये गए निर्देशों के अनुसार, कुल 30 प्रश्नों को हल करें। अपने उत्तर पुस्तिका पर लिखें जो आपको कक्षा में दी जायेगी।
 2. Part 'A' contains 23 questions and each question in this part carries 'Five marks'. Answer any 20 questions only. / भाग 'क' के सभी प्रश्न पाँच अंकों के हैं और इनमें कुल 23 प्रश्न हैं। किसी भी 20 प्रश्नों का उत्तर दें।
 3. Part 'B' contains 12 questions and each question in this part carries 'Ten marks'. Answer any 10 questions only. / भाग 'ख' के सभी प्रश्न दस अंकों के हैं और इनमें कुल 12 प्रश्न हैं। किसी भी 10 प्रश्नों का उत्तर दें।
 4. Use of Calculator is Prohibited. Marks will be awarded for steps. कैल्कुलेटर का प्रयोग करना सख्त मना है। अंक स्टेप वार दिये जायेंगे।
 5. Take the value of π as $\frac{22}{7}$ / π का मान $\frac{22}{7}$ लिखिए।
 6. The question paper can be retained by the candidates post exam. / परीक्षा के बाद परीक्षार्थी प्रश्न पत्र को ले जा सकता है।

PART A (20 × 5 = 100 MARKS)
 (Answer any 20 / किसी 20 प्रश्नों के उत्तर दें)

- Q.1 $\left(\left(\frac{9}{7}\right)^{5y-3}\right)^2 = \frac{6561}{2401}$. Find the value of y / y का मान ज्ञात करें।
- ✓ Q.2 Find the least number which is a perfect square and is divisible by each of the number 16, 20 and 24. / वह सबसे छोटी संख्या ज्ञात कीजिए जो कि एक पूर्णवर्ग संख्या है और 16, 20 और 24 से विभाजित हो।
- Q.3 Two Bus tickets from city A to B and three Tickets from city A to C costs Rs 77, but three ticket from city A to B and two tickets from A to C cost Rs 73. What are the fares for cities B and C from A? / यदि A से B शहर जाने की 2 टिकट और A से C शहर जाने की 3 टिकट की कुल कीमत 77 रुपये है लेकिन A से B शहर तक जाने के 3 टिकट तथा A से C शहर जाने के 2 टिकट की कीमत 73 रुपये है तो A शहर से B और C शहर जाने का किराया क्या होगा?
- Q.4 Divide the number 26244 by the smallest number so that the quotient is a perfect cube. / संख्या 26244 को सबसे छोटे संख्या से विभाजित करें, जिससे संख्या का भागफल एक पूर्ण घन हो।
- Q.5 How many natural numbers lie between squares of 89 and 100. / 89 और 100 के वर्गों के बीच कितने प्राकृतिक संख्या होते हैं?
- Q.6 What sum of money will amount to Rs 4235 in $3\frac{1}{2}$ years at 6 % per annum simple interest? / $3\frac{1}{2}$ वर्ष में 6% वार्षिक साधारण व्याज की दर से कितना धन ₹ 4235 हो जायेगा?
- ✓ Q.7 A train moving with a speed of 90 km/hr crosses an electric pole in 15 seconds. What is the length of the train in meters? / यदि 90 किमी/घंटे की गति से चलने वाली एक रेलगाड़ी एक बिजली के खम्भे को 15 सेकेंड में पार करती है तो उस रेलगाड़ी की लम्बाई मीटर में ज्ञात करें।
- ✍ Q.8 Simplify / सरल करें: $\frac{4^{n+2} - 4^{n+1}}{5 \times 4^n - 4^n}$

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Table of Contents Nmaths August 2013 Question Paper

1. Understanding the eBook Nmaths August 2013 Question Paper
 - The Rise of Digital Reading Nmaths August 2013 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Nmaths August 2013 Question 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 Nmaths August 2013 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nmaths August 2013 Question Paper
 - Personalized Recommendations
 - Nmaths August 2013 Question Paper User Reviews and Ratings
 - Nmaths August 2013 Question Paper and Bestseller Lists
5. Accessing Nmaths August 2013 Question Paper Free and Paid eBooks

- Nmaths August 2013 Question Paper Public Domain eBooks
- Nmaths August 2013 Question Paper eBook Subscription Services
- Nmaths August 2013 Question Paper Budget-Friendly Options
- 6. Navigating Nmaths August 2013 Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Nmaths August 2013 Question Paper Compatibility with Devices
 - Nmaths August 2013 Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nmaths August 2013 Question Paper
 - Highlighting and Note-Taking Nmaths August 2013 Question Paper
 - Interactive Elements Nmaths August 2013 Question Paper
- 8. Staying Engaged with Nmaths August 2013 Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nmaths August 2013 Question Paper
- 9. Balancing eBooks and Physical Books Nmaths August 2013 Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nmaths August 2013 Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nmaths August 2013 Question Paper
 - Setting Reading Goals Nmaths August 2013 Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nmaths August 2013 Question Paper
 - Fact-Checking eBook Content of Nmaths August 2013 Question 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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