#### এস এস সি মডেশ প্রশ্ন (সকল বেডিরে জন্য)

#### বিষয় : উচ্চতর গণিত (সুজনশীল)

বিষয় কোড: ১ ২ ৬ সময় : ২ ঘটা ১০ মিনিট পর্বমান : ৪০ ্বি.দ্র. প্রত্যেক বিভাগ থেকে কমপক্ষে ১ টি করে মোট ৪ টি প্রপ্লের উত্তর দিতে ইবে। ভান পালের সংখ্যা প্রভার পূর্ণমান ভাপক।] ক-বিভাগ: বীজগণিত

 $F(x) = x^3 - 2x^2 + 1$  এবং  $G(x) = x^3 - 3x - 2$  সুইটি বছপদী।

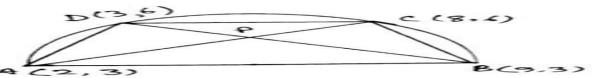
- ক) F(x) কে x+1 ঘারা ভাগ করলে, যে ভাগশেষ থাকে তা ভাগশেষ উপপাদ্যের সাহাথের নির্ণয় কর।
  - খ)  $\frac{\mathbf{F}(\mathbf{x})}{\mathbf{G}(\mathbf{x})} = \mathbf{0}$  হলে,  $\mathbf{x}$  এর মান নির্ণয় কর। গ)  $\frac{\mathbf{F}(\mathbf{x})}{\mathbf{G}(\mathbf{x})}$  কে আংশিক ভগ্নাংশে প্রকাশ কর । 8
- 2-x,  $1+\frac{x}{2}$  এবং  $x^2-3^{\frac{2}{3}}-3^{-\frac{2}{3}}+2$  তিনটি বীজগাণিতিক রাশি ৷ ক) (2 - x)<sup>6</sup> এর বিক্ততির মধ্যপদ নির্ণয় কর। খ) তয় রাশির মান শূন্য হলে, প্রমাণ কর যে,  $3x^3 + 9x + 8 = 0$ ; যেখানে x < 0.8গ) x এর ঘাতের উর্ধ্বক্রম অনুসারে  $(2-x)\left(1+rac{x}{2}
  ight)^{8}$  কে  $x^3$  পর্যন্ত কিন্তুত কর। উক্ত ফলাফল ব্যবহার করে  $1.99 imes (1.005)^8$  এর আসন্ন মান তিন দশমিক স্থান পর্যস্ত নির্পিয় কর।

#### খ-বিভাগ: জ্যামিতি ও ভেক্টর)

A(-5, 0), B(0, -5), C(10, 5) এবং D(5, 10) চারটি বিন্দু ৷ BC রেখা x-অক্ষকে E বিন্দুতে এবং AD রেখা y-অক্ষকে F বিন্দুতে ছেদ করেছে। ক) AC ও BD রেখার ঢাল নির্ণয় কর। -খ) দেখাও যে, ABCD একটি আয়ত। 8 গ) বিন্দু চারটি দ্বারা গঠিত ক্ষেত্রের যে অংশ প্রথম চর্তুভাগে অবস্থিত তার ক্ষেত্রফল নিপিয় কর। -

8 .

> "



চিত্রে ADCB একটি অর্ধবৃত্ত। যার ব্যাস AB। AC ও BD জ্যাছর P বিন্দুতে ছেদ করেছে। P বিশুতে BD জ্ঞা m : n অনুপাতে বিভক্ত হয়েছে। ক) ABCD চতুর্ভুভিনি প্রকৃতি নির্ণয় কর। -খ)  ${f B}$  ও  ${f D}$  বিশ্বের অবহানে ভেউনে যথাক্রমে  ${f b}$  ও  ${f d}$  হলে, প্রেমাণ কর যে,  ${f P}$  বিশ্বের md + nbঅবস্থান ভেক্টর = 8 m + nগ) জ্যামিতিক উপায়ে প্রমাণ কর যে,  $AB^2 = AC.AP + BD.BP$ .

#### গ-বিভাগ (ত্রিকোণমিতি ও সম্ভাবনা)

 $x = \sin \theta - \cos \theta + 1$  $y = \sin \theta + \cos \theta - 1$ ক)  $\theta = (2x + 1)\frac{\pi}{2}$  হলে  $x \in y$  এর মান কত? যেখানে  $x \in Z$ । খ) দেখাও যে,  $\frac{x}{y} = \frac{1 + \sin \theta}{\cos \theta}$ = গ) সমাধান কর: ny = 0 যেখালে,  $-2\pi \le \theta \le 2\pi$ . একজন শিক্ষক চারটি মুদ্রা ও একটি ছক্কা নিয়ে সম্ভাবনা সম্পর্কে শিক্ষা দান করছেন। ক) তথু ছকা নিক্ষেপ করলে ও 3 এর গুণিতক না উঠার সম্ভাবনা কত? -খ) যদি কেবল চারটি মুলা একত্রে নিক্ষেপ করা হত তবে সম্ভাব্য সকল ফলাফল probability tree এর সাহায়ে লিখ ৷ গ) যদি কেবল দুইটি মুদা ও একটি ছকা একসঙ্গে নিজেপ করা হয় তবে ছকায় বিজ্ঞাড় এবং মুদ্রাছয়ে একই ফলাফল পাওয়ার সম্ভাবনা কত?

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Wenbin Ji

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#### **Table of Contents Ssc Higher Math Question 2014**

- 1. Understanding the eBook Ssc Higher Math Question 2014
  - The Rise of Digital Reading Ssc Higher Math Question 2014
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Ssc Higher Math Question 2014
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - $\circ\,$  Features to Look for in an Ssc Higher Math Question 2014
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ssc Higher Math Question 2014
  - Personalized Recommendations

- Ssc Higher Math Question 2014 User Reviews and Ratings
- Ssc Higher Math Question 2014 and Bestseller Lists
- 5. Accessing Ssc Higher Math Question 2014 Free and Paid eBooks
  - Ssc Higher Math Question 2014 Public Domain eBooks
  - Ssc Higher Math Question 2014 eBook Subscription Services
  - Ssc Higher Math Question 2014 Budget-Friendly Options
- 6. Navigating Ssc Higher Math Question 2014 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Ssc Higher Math Question 2014 Compatibility with Devices
  - Ssc Higher Math Question 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Ssc Higher Math Question 2014
  - Highlighting and Note-Taking Ssc Higher Math Question 2014
  - Interactive Elements Ssc Higher Math Question 2014
- 8. Staying Engaged with Ssc Higher Math Question 2014
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ssc Higher Math Question 2014
- 9. Balancing eBooks and Physical Books Ssc Higher Math Question 2014
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ssc Higher Math Question 2014
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ssc Higher Math Question 2014
  - $\circ\,$  Setting Reading Goals Ssc Higher Math Question 2014
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ssc Higher Math Question 2014
  - Fact-Checking eBook Content of Ssc Higher Math Question 2014

- 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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