

**৪ সেট**  
**অনিয়ত স্কুল সার্ভিকিট পরীক্ষা, ২০১৩**  
**পনিত**  
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বিষয় কোড :

**1 0 9**

সময়—৩ ঘণ্টা

পূর্ণমান—১০০

**[দ্রষ্টব্যঃ—ডান পাশে উল্লিখিত সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক।]**

পাঠিপনিত

মান—২৪

- ১। নিচের তালিকাটির পরবর্তী দুইটি সংখ্যা নির্ণয় কর :—  
২, ২, ৪, ৮, ১৪, ২২ .....

অর্থবা,

নিচের তালিকাটির পাশাপাশি দুইটি পদের পার্থক্য বের কর এবং পরবর্তী দুইটি সংখ্যা নির্ণয় কর :—  
৬, ১৭, ২৮, ৩৯, ৫০, .....

- ২। যে কোনো দুইটি প্রশ্নের উত্তর দাও :—

- (ক) বার্ষিক মুদ্রাফা ৮% থেকে বেড়ে ১০% হওয়ায় তিনশা মারমার আর ৪ বছরে ১২৮ টাকা বেড়ে গেল। তার মূলধন কত ছিল?  
(খ) ৬,৫০০ টাকা যে ছাত্র মূল্যফার ৪ বছরে মূল্যফা-আসলে ৮,৮৪০ টাকা হয়, ঐ একই ছাত্র মূল্যফার কত টাকা ৪ বছরে মূল্যফা-আসলে ১০,২০০ টাকা হবে?  
(গ) বার্ষিক শতকরা ৮-৫০ টাকা চক্রবৃদ্ধি মূল্যফার ১০,০০০ টাকার ২ বছরের সবুজি মূল ও চক্রবৃদ্ধি মূল্যফা নির্ণয় কর।  
(ঘ) কোনো শহরের বর্তমান জনসংখ্যা ৮০ লক্ষ ঐ শহরের জনসংখ্যা বৃদ্ধির হার প্রতি হাজারে ৩০ হলে, ৩ বছর পর ঐ শহরের জনসংখ্যা কত হবে?

- ৩। যে কোনো একটি প্রশ্নের উত্তর দাও :—

- (ক) একটি আয়তাকার বাগানের দৈর্ঘ্য ৩২ মিটার এবং প্রস্থ ২৪ মিটার। এর ভিতরে চারদিকে ২ মিটার চওড়া একটি রাস্তা আছে। রাস্তাটির ক্ষেত্রফল নির্ণয় কর।  
(খ) একটি ঘরের মোট কার্পেট নিয়ে ঢাকতে মোট ৭,২০৬ টাকা ব্যয় হয়। ঘরটির প্রস্থ ৩ মিটার কম হলে ৫৭৬ টাকা কম ব্যয় হতো। ঘরটির প্রস্থ কত?

সীমাপনিত

মান—৩০

- ৪। যে কোনো দুইটি প্রশ্নের উত্তর দাও :—

- (ক)  $a - \frac{1}{a} = m$  হলে, দেখাও যে  $a^4 + \frac{1}{a^4} = m^4 + 4m^2 + 2$ .  
(খ)  $a - \frac{1}{a} = 5$  হলে,  $a^3 - \frac{1}{a^3}$  এর মান কত?  
(গ) উৎপাদকে বিশ্লেষণ কর (যে কোনো দুইটি) :  
(i)  $64a^3 - 125b^3$ .  
(ii)  $ax^2 + (a^2 + 1)x + a$ .  
(iii)  $x^2 + y^2 - 2xy - 1$ .

- (ঘ) ল. সা. ও নির্ণয় কর :

$$6x^2 - x - 1, 3x^2 + 7x + 2 \text{ এবং } 2x^2 + 3x - 2.$$

- ৫। যে কোনো একটি প্রশ্নের উত্তর দাও :—

- (ক) সরল কর :

$$\frac{1}{x+3y} + \frac{1}{x-3y} - \frac{2x}{x^2-9y^2}.$$

- (খ) সরল কর :

$$\frac{x^2+2x-3}{x^2+x-2} \div \frac{x^2+x-6}{x^2-4}.$$

# Jsc Math Question 2013

**Erwan Brugalle, Maria Angelica  
Cueto, Alicia Dickenstein, Eva-Maria  
Feichtner, Ilia Itenberg**

**Jsc Math Question 2013:**

## **Jsc Math Question 2013** Book Review: Unveiling the Magic of Language

In an electronic 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 "**Jsc Math Question 2013**," written by a highly 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 into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web thermal energy is the thing that object possess but heat is a process that occurs between objects if we compare an iceberg to a pot of boiling water each of the molecules of both objects have their own amount of thermal energy all pieces of matter even very cold ones have at least some thermal energy because they are in motion at the

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