

## 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 দিতে হবে।

অধ্যায় ০৪

### বীজগণিতীয় সূত্রাবলি ও প্রয়োগ

Step ১ ক্রম প্রণয়ন বিশ্লেষণের মাধ্যমে সাজেশন

৭৩

১. প্রশ্ন ১৩।  $m^2 - 4m + 1 = 0$ । [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 ১৪।  $a^2 + 1 = 4a$  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 ১০নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

৩. প্রশ্ন ১৫।  $P = a + b + c$ ,  $Q = a^2 - a\sqrt{3} + 1$ ,  $R = x^2 + \frac{1}{x}$  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 ১৬।  $a^2 - 2a = 1$  (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 ১৭।  $x^2 - 3x = 1$ ,  $x > 0$  হলে— [অনু. ৪.২]

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

খ. প্রমাণ কর যে,  $x^4 + \frac{1}{x^4} = 119$ । 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 ১৮।  $x^2 - 5x + 1 = 0$  একটি বীজগণিতিক 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

[বিল্বদেবী সরকারি স্কুল ও কলেজ, চট্টগ্রাম]

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

৭. প্রশ্ন ১৯।  $a$  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 ২০।  $y^2 - 2y - 1 = 0$  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 ২১।  $x^2 - x - (a^2 + 3a + 2)$  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 ৩৭নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

১০. প্রশ্ন ২২।  $P = 3a^2 - 16a - 12$ ,  $Q = 3a^2 + 5a + 2$  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 সারকারি কলক উচ্চ বিদ্যালয়, ঢাকা]

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

১১. প্রশ্ন ২৩।  $6x^2 - x - 1$ ,  $3x^2 + 7x + 2$ ,  $2x^2 + 3x - 2$  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.  $x^4 + y^4 - z^4 + 3x^2y^2z^2 = 0$  হলে প্রমাণ কর যে,  $x^2 + y^2 = z^2$ । ৪

[হানসেন সারকারি উচ্চ বিদ্যালয়, ঈশ্বরপুর]

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

১২. প্রশ্ন ২৪। নিচে চারটি বীজগণিতিক 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।

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