

বীজগণিত অংশ

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

অধ্যায় ০৪ বীজগণিতীয় সূত্রাবলি ও প্রয়োগ

Step ১ ক্রম প্রথমত বিশ্লেষণের মাধ্যমে সাজেশন

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** $P = a + b + c$, $Q = a^2 - a\sqrt{3} + 1$, $R = x^2 + \frac{1}{x^2}$ হলে, [অনু. ৪.২]

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, $x = \frac{2 + \sqrt{3}}{2}$, 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, $x^4 + \frac{1}{x^4} = 119$ 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 ৬** $x^2 - 5x + 1 = 0$ 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

[হিল্লোহী শরকরি বঙ্গবন্ধু উচ্চ বিদ্যালয়, চট্টগ্রাম]

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

৭. **প্রশ্ন ৭** a এবং b এর লুপসাক বিশ্লিষ্ট রাশির সমষ্টি 4 । [অনু. ৪.২]

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

খ. প্রদত্ত তথ্যকে সমীকরণে প্রকাশ করে $\frac{x^2 - 1}{x}$ 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. 12 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 সারকরি বঙ্গবন্ধু উচ্চ বিদ্যালয়, ঢাকা]

উত্তরসূত্র : পৃষ্ঠা ১০৭-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. 0 এর রাশির উৎপাদকে নির্ণয় কর। ২

খ. 12 , 24 ও 0 এর 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

[হাসান আলী সরকারি উচ্চ বিদ্যালয়, ঈশ্বরপুর]

উত্তরসূত্র : পৃষ্ঠা ১০৯-এর ১৬নং সূজনশীল প্রশ্নের সমাধান প্রদেয়।

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