

ক বিভাগ—পাটিগণিত

১. কোনো আসল ৬ বছরে মুনাফা-আসলে ১১০০০ টাকা হয়। মুনাফা, আসলের $\frac{৩}{৮}$ অংশ।

- ক. সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার সূত্র লিখ। ২
- খ. আসল ও মুনাফার হার নির্ণয় কর। ৪
- গ. একই হার মুনাফায় ১২০০০ টাকার ৩ বছরের চক্রবৃদ্ধি ও সরল মুনাফার পার্থক্য নির্ণয় কর। ৪

২. মিঃ নাসিমের একটি আয়তাকার বাগান আছে। যার দৈর্ঘ্য প্রস্থের দেড়গুণ এবং ক্ষেত্রফল ২৪০০ বর্গমিটার। বাগানটির বাহিরে চারিদিকে ৩ মিটার প্রশস্ত একটি পথ আছে। পথের প্রতি বর্গমিটারে ৩.২৫ টাকা দরে ঘাস লাগানো হল।

- ক. উদ্দীপকের আলোকে পথসহ আয়তাকার বাগানের একটি আনুপাতিক চিত্র অঙ্কন কর। ২
- খ. বাগানটির দৈর্ঘ্য ও প্রস্থ নির্ণয় কর। ৪
- গ. পথটিতে ঘাস লাগাতে মোট কত খরচ হবে? নির্ণয় কর। ৪

খ বিভাগ—বীজগণিত

৩. $p^2 - 3p + 1 = 0$ একটি বীজগাণিতিক সমীকরণ—

- ক. $\left(p + \frac{1}{p}\right)$ এর মান নির্ণয় কর। ২
- খ. $\left(p^2 - \frac{1}{p^2}\right)$ এর মান নির্ণয় কর। ৪
- গ. প্রমাণ কর যে, $\left(p^2 + \frac{1}{p^2}\right) \left(p^3 + \frac{1}{p^3}\right) = 126$ ৪

৪. $2x + 3y = 8$ এবং $3x - 4y = -5$ সরল সমীকরণ।

- ক. $(-5, 6)$ এবং $(7, -2)$ বিন্দু দুইটি কোণ কোন চতুর্ভাগে অবস্থিত। ২
- খ. অপনয়ন পদ্ধতিতে সমীকরণ দুইটির সমাধান কর। ৪
- গ. লেখের সাহায্যে সমীকরণ দুইটির সমাধান করে 'খ' এর প্রাপ্ত মানের সত্যতা যাচাই কর। ৪

৫. নিচের উদ্দীপকটি পড় এবং প্রশ্নগুলোর উত্তর দাও।

U, A, B এবং C চারটি সেট।

যেখানে $U = \{x \in \mathbb{N} : x \leq 7\}$

$A = \{x \in \mathbb{N} : x < 7 \text{ এবং } x \text{ বিজোড় সংখ্যা}\}$

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Zhe Xu



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ω represents the frequency of a sine wave when we write it this way $\sin \omega t$ if $\omega = 1$ the sin completes one cycle in 2π seconds if $\omega = 2\pi$ the sin completes one cycle sooner every 1 second for $f = 1$ if $\omega = 2\pi f$ the sin completes one cycle even faster every $1/f$ seconds or equivalently sin completes f cycles in 1 second

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