

ক বিভাগ—পাটিগণিত

১. ৬৫০০ টাকা একটি নির্দিষ্ট হার মুনাফায় ৫ বছরে মুনাফা আসলে ৯৪২৫ টাকা হয়।

- ক. মুনাফার হার কত? ২
খ. একই হার মুনাফায় কত টাকা ৫ বছরে মুনাফা-আসলে ১০২৯৫ টাকা হবে? ৪
গ. বার্ষিক ১০% মুনাফায় 'খ' এর প্রাপ্ত টাকার ৫ বছরের চক্র বৃদ্ধি মুনাফা কত হবে? ৪

২. একটি আয়তাকার মাঠের দৈর্ঘ্য প্রস্থের ৩ গুণ। প্রতি বর্গমিটারে ৭.৫০ টাকা দরে ঐ মাঠে ঘাস লাগাতে মোট ১৮২২.৫০ টাকা খরচ হয়।

- ক. আয়তাকার মাঠের প্রস্থ 'x' মিটার ধরে ক্ষেত্রফল নির্ণয় কর। ২
খ. আয়তাকার মাঠের দৈর্ঘ্য ও প্রস্থ নির্ণয় কর। ৪
গ. আয়তাকার মাঠের সমান পরিসীমাবিশিষ্ট একটি বর্গাকার কক্ষকে প্রতিটি ২৫ সে.মি. বর্গাকার পাথর দ্বারা বাঁধাই করতে মোট কতটি পাথর লাগবে? ৪

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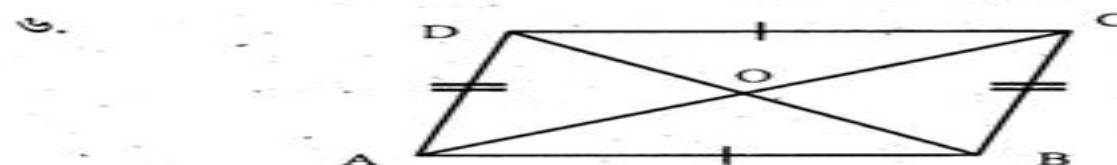
৩. $\frac{1}{1-p+p^2}$, $\frac{1}{1+p+p^2}$ এবং $\frac{2p}{1+p^2+p^4}$ তিনটি বীজগাণিতীয় ভগ্নাংশ।

- ক. তয় ভগ্নাংশের হরকে উৎপাদকে বিশ্লেষণ কর। ২
খ. প্রমাণ কর যে, $\frac{1}{1-p+p^2} - \frac{1}{1+p+p^2} - \frac{2p}{1+p^2+p^4} = 0$ ৪
গ. ভগ্নাংশ ৩টিকে সমহরবিশিষ্ট ভগ্নাংশে প্রকাশ কর। ৪
৪. $x + 5y = 17$ এবং $7x - 4y = 2$ দুইটি সরল সমীকরণ।
ক. (6, 10) বিন্দুটি কোন সমীকরণের মূল তা নির্ণয় কর। ২
খ. প্রতিস্থাপন পদ্ধতিতে সমীকরণ দুইটি সমাধান কর। ৪
গ. সমীকরণ জোড়ের লেখচিত্র অঙ্কন কর। ৪

৫. $U = \{1, 2, 3, 4, 5, 6, 7, 8\}$, $A = \{x : x \text{ মৌলিক সংখ্যা এবং } x < 10\}$,
 $B = \{4, 5, 6\}$ এবং $C = \{1, 3, 4, 5\}$

- ক. A সেটকে তালিকা পদ্ধতিতে প্রকাশ কর। ২
খ. B সেটের উপসেট নির্ণয় কর এবং $(A \cup B) \cap C$ নির্ণয় কর। ৪
গ. প্রমাণ কর যে, $(A \cap B)' = A' \cup B'$ ৪

গ বিভাগ—জ্যামিতি



চিত্রে ABCD সামান্তরিকের AC ও BD ইহার দুইটি কর্ণ।

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