

[দ্রষ্টব্য : প্রতিটি বিভাগ হাতে কমপক্ষে ১টি করে নিয়ে যে কোনো ৬টি প্রশ্নের উত্তর দাও। ডান পার্শ্বস্থ সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপিত।]

১. নাসিমা বেগম কোনো ব্যাংক থেকে ৫,০০০ টাকা জমা রেখে ৩ বছর পর মুনাফাসহ ৬,২০০ টাকা পেয়েছেন।

ক. সরল মুনাফার হার নির্ণয় কর। ২

খ. আরও ২ বছর পর মুনাফা-আসল কত হবে? ৪

গ. ব্যাংকে জমাকৃত টাকা একই হারে চক্রবৃদ্ধি মুনাফায় জমা রাখলে ৩ বছর পর চক্রবৃদ্ধি মূলধন কত হতো? ৪

২. একটি আয়তাকার চৌবাচ্চার দৈর্ঘ্য ৫.৫ মিটার এবং প্রস্থ ৪ মিটার। প্রস্থ উচ্চতার দ্বিগুণ। এর চারপাশ  $১.৫ \times ১.৫$  মিটার<sup>২</sup> বর্গাকার পাথর দ্বারা বাঁধানো।

ক. চৌবাচ্চাটির তলার ক্ষেত্রফল নির্ণয় কর। ২

খ. উক্ত চৌবাচ্চাটি পানি ভর্তি থাকলে পানির আয়তন কত লিটার এবং ওজন কত কিলোগ্রাম হবে? ৪

গ. চৌবাচ্চার ভিতরের চারপাশের তলা বাঁধাতে কতটি পাথর লাগবে? ৪

#### খ বিভাগ—বীজগণিত

৩.  $x^2 - y^2$ ,  $2x + 2y$  এবং  $2x^2y + 2xy^2$  তিনটি বীজগাণিতীয় রাশি।

ক. ১ম রাশির বর্গ নির্ণয় কর। ২

খ. রাশি তিনটির ল.সা.গু. নির্ণয় কর। ৪

গ. ২য় রাশি = ৬ এবং  $xy = -4$  হলে  $x^3 - y^3$  এর মান নির্ণয় কর। ৪

৪. দুইটি সংখ্যার প্রথমটির তিনগুণের সাথে দ্বিতীয়টি যোগ করলে ১৭ হয়।

আবার প্রথমটির সাথে দ্বিতীয়টির তিনগুণ যোগ করলে ১৯ হয়।

ক. চলকের মাধ্যমে সমীকরণ দুটি গঠন কর। ২

খ. প্রাপ্ত সমীকরণদ্বয়কে প্রতিস্থাপন পদ্ধতিতে সমাধান কর। ৪

গ. সমীকরণদ্বয়কে লেখচিত্রের মাধ্যমে সমাধান কর। ৪

৫.  $A = \{x : x, \text{জোড়সংখ্যা এবং } 2 < x < ১৬\}$ ,

$B = \{x : x, ১২ \text{ এর গুণনীয়ক}\}$

এবং  $C = \{x : x, ১৫ \text{ এর মৌলিক গুণনীয়ক}\}$

ক. C সেটকে তালিকা পদ্ধতিতে প্রকাশ কর। ২

খ.  $A \cap B$  এবং  $A \cup B$  নির্ণয় কর। ৪

গ. দেখাও যে,  $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$ । ৪

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