

[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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web thermal energy from the hotter object to the cooler object the hotter object will cool down and the cooler one will warm up until they are at the same temperature where there will be no net energy transfer two objects are in thermal equilibrium when there is no net transfer of thermal energy between them solids liquids and gases

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