

গণিত
সৃজনশীল প্রশ্ন

বিষয় কোড :

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মান— ৭০

সময়—২ ঘণ্টা ৩০ মিনিট

[দ্রষ্টব্য : ক বিভাগ থেকে ২টি, খ বিভাগ থেকে ২টি, গ বিভাগ থেকে ২টি, এবং ঘ বিভাগ হতে ১ টি করে মোট ৭টি প্রশ্নের উত্তর দিতে হবে।]

ক বিভাগ—পাটিগণিত

১.► ৭, ১১, ১৫, ১৯, ২৩, ২৭ একটি সংখ্যার প্যাটার্ন।

ক. ৪০ কে দুইটি বর্গের অন্তর ও ১০০ কে দুইটি বর্গের সমষ্টিরূপে প্রকাশ কর। ২

খ. উদ্দীপকে প্রদত্ত সংখ্যাগুলো কোন নিয়মে প্যাটার্নভুক্ত হলো তা দেখাও এবং যে কোনো পদ নির্ণয় সূত্র 'ক' চলকের মাধ্যমে প্রকাশ কর। ৪

গ. প্যাটার্নটির প্রথম ২৫টি পদের সমষ্টি নির্ণয় কর। ৪

২.► কোনো আসল ৫ বছরে মুনাফা-আসলে ৫,০০০ টাকা এবং ৩ বছরে মুনাফা-আসলে ৪,৫০০ টাকা হয়।

ক. ২ বছরের মুনাফা কত? ২

খ. আসল ও মুনাফার হার নির্ণয় কর। ৪

গ. একই হার মুনাফায় কত বছরে উক্ত আসল মুনাফা-আসলে দ্বিগুণ হবে? ৪

৩.  একটি আয়তাকার চৌবাচ্চার দৈর্ঘ্য ৫৫০ সে.মি. এবং প্রস্থ ৪০০ সে.মি.। প্রস্থ উচ্চতার দ্বিগুণ। এর চারপাশে ১.৫ x ১.৫ বর্গমিটার বর্গাকার পাথর দ্বারা বাঁধানো।

ক. চৌবাচ্চাটির তলার ক্ষেত্রফল বর্গমিটারে প্রকাশ 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

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of two gears and a rack and pinion arrangement