

জুনিয়র স্কুল সার্টিফিকেট পরীক্ষা, বরিশাল বোর্ড ২০১৬

গণিত

বিষয় কোড :

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সময়-২ ঘণ্টা ২০ মিনিট

সৃজনশীল প্রশ্ন

মান-৬০

[দ্রষ্টব্য : ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। নিচে উল্লিখিত উদ্দীপকগুলো মনোযোগসহ পড়ে সংশ্লিষ্ট প্রশ্নগুলোর উত্তর দাও। যেকোনো ছয়টি প্রশ্নের উত্তর দিতে হবে।]

ক বিভাগ : পাটিগণিত

- ১। তানিম সাহেব ১০% মুনাফায় ৫০০০ টাকা ৩ বছরের জন্য ব্যাংকে জমা রাখলেন?
- ক. ৩ বছরের সরল মুনাফা কত? ২
- খ. ৩ বছরের সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য নির্ণয় কর। ৪
- গ. একই হার মুনাফায় কত বছরে উক্ত আসল, মুনাফা-আসলে তিনগুণ হবে? ৪
- ২। একটি আয়তাকার বাগানের দৈর্ঘ্য প্রস্থের দেড়গুণ। বাগানের ক্ষেত্রফল ৩৭৫০ বর্গমিটার। বাগানটি পরিচর্যা করার জন্য ঠিক মাঝ দিয়ে ৩ মিটার চওড়া দৈর্ঘ্য ও প্রস্থ বরাবর রাস্তা আছে।
- ক. উদ্দীপকের আলোকে অনুপাতিক চিত্র আঁক। ২
- খ. বাগানের দৈর্ঘ্য ও প্রস্থ নির্ণয় কর। ৪
- গ. রাস্তাটি ২ বর্গমিটার পাথর দ্বারা বাঁধাই করতে মোট কতটি পাথর লাগবে? ৪

খ বিভাগ : বীজগণিত

- ৩। $x - 5 = y$ এবং $x^2 - y^2 = 15$ হলে—
- ক. $x + y =$ কত? ২
- খ. $4x^2 + 4y^2$ এর মান নির্ণয় কর। ৪
- গ. প্রমাণ কর, $x^3 - y^3 = 65$ ৪
- ৪। $2x + y = 8$ এবং $3x - 2y = 5$ দুইটি সরল সমীকরণ।
- ক. $(4, 0)$ বিন্দুটি কোন সমীকরণের মূল, তা নির্ণয় কর। ২
- খ. প্রতিস্থাপন পদ্ধতিতে সমীকরণদ্বয়ের সমাধান কর। ৪
- গ. লেখচিত্রের সাহায্যে সমীকরণদ্বয়ের সমাধান কর এবং 'খ' এ প্রাপ্ত মানের সত্যতা যাচাই কর। ৪
- ৫। $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{x : x, 12 \text{ এর গুণনীয়ক}\}$
 $B = \{x : x, 3 \text{ এর গুণিতক এবং } x < 9\}$, $C = \{3, 5, 7\}$

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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