জুনিয়র স্কুল সার্টিফিকেট পরীক্ষা, ২০১৩

গণিত

[২০১৩ সালের সিলেবাস অনুযায়ী]

বিষয় কোড : | 1 | 0 | 9 |

সময়—৩ ঘণ্টা

পূর্ণমান—১০০

[দ্রষ্টব্যঃ—ডান পাশে উল্লিখিত সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক।]

পাটিগণিত

মান—২৪

১। নিচের তালিকাটির পরবর্তী দুইটি সংখ্যা নির্ণয় কর ঃ— ৬×১=৬

২, ২, ৪, ৮, ১৪, ২২ ....।

অথবা,

নিচের তালিকাটির পাশাপাশি দুইটি পদের পার্থক্য বের কর এবং পরবর্তী দুইটি সংখ্যা নির্ণয় কর ঃ—

৬, ১৭, ২৮, ৩৯, ৫০, ...।

২। যে কোনো **দুইটি** প্রশ্নের উত্তর দাও ঃ— ৬×২=১২

(ক) বার্ষিক মুনাফা ৮% থেকে বেড়ে ১০% হওয়ায় তিশা মার্মার আয় ৪ বছরে ১২৮ টাকা বেড়ে গেল। তার মূলধন কত ছিল?

(খ) ৩,৫০০ টাকা যে হার মুনাফায় ৪ বছরে মুনাফা-আসলে ৮,৮৪০ টাকা হয়, ঐ একই হার মুনাফায় কত টাকা ৪ বছরে মুনাফা-আসলে ১০,২০০ টাকা হবে?

(গ) বার্ষিক শতকরা ৮·৫০ টাকা চক্রবৃদ্ধি মুনাফায় ১০,০০০ টাকার ২ বছরের সবৃদ্ধি মূল ও চক্রবৃদ্ধি মুনাফা নির্ণয় কর।

(ঘ) কোনো শহরের বর্তমান জনসংখ্যা ৮০ লক্ষ ঐ শহরের জনসংখ্যা বৃদ্ধির হার প্রতি হাজারে ৩০ হলে, ৩ বছর পর ঐ শহরের জনসংখ্যা কত হবে?

৩। যে কোনো **একটি** প্রশ্নের উত্তর দাও ঃ— ৬×১=৬

(ক) একটি আয়তাকার বাগানের দৈর্ঘ্য ৩২ মিটার এবং প্রস্থ ২৪ মিটার। এর ভিতরে চারদিকে ২ মিটার চওড়া একটি রাস্তা আছে। রাস্তাটির ক্ষেত্রফল নির্ণয় কর।

(খ) একটি ঘরের মেঝে কার্পেট দিয়ে ঢাকতে মোট ৭,২০০ টাকা খরচ হয়। ঘরটির প্রস্থ ৩ মিটার কম হলে ৫৭৬ টাকা কম খরচ হতো। ঘরটির প্রস্থ কত?

বীজগণিত

মান—৩০

৪। যে কোনো **দুইটি** প্রশ্নের উত্তর দাও ঃ— ৬×২=১২

(ক) $a - \dfrac{1}{a} = m$ হলে, দেখাও যে $a^4 + \dfrac{1}{a^4} = m^4 + 4m^2 + 2$

(খ) $a - \dfrac{1}{a} = 5$ হলে, $a^3 - \dfrac{1}{a^3}$ এর মান কত?

(গ) উৎপাদকে বিশ্লেষণ কর (যে কোনো **দুইটি**) ঃ

(i) $64a^3 - 125b^3$.

(ii) $ax^2 + (a^2 + 1)x + a$.

(iii) $x^2 + y^2 - 2xy - 1$.

(ঘ) গ. সা. গু নির্ণয় কর ঃ

$6x^2 - x - 1$, $3x^2 + 7x + 2$ এবং $2x^2 + 3x - 2$.

৫। যে কোনো **একটি** প্রশ্নের উত্তর দাও ঃ— ৬×১=৬

(ক) সরল কর ঃ

$$\dfrac{1}{x + 3y} + \dfrac{1}{x - 3y} - \dfrac{2x}{x^2 - 9y^2}.$$

(খ) সরল কর ঃ

$$\dfrac{x^2 + 2x - 3}{x^2 + x - 2} \div \dfrac{x^2 + x - 6}{x^2 - 4}.$$

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Fabrizio Broglia

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