

৪ সেট
অনিয়ত স্কুল সার্ভিকিট পরীক্ষা, ২০১৩
পনিত
[২০১৩ সালের সিলেবাস অনুযায়ী]

বিষয় কোড :

1 0 9

সময়—৩ ঘণ্টা

পূর্ণমান—১০০

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

পাঠিপনিত

মান—২৪

- ১। নিচের তালিকাটির পরবর্তী দুইটি সংখ্যা নির্ণয় কর :—
২, ২, ৪, ৮, ১৪, ২২

অর্থবা,

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 :—

- (ক) বার্ষিক মুদ্রাফা ৮% থেকে বেড়ে ১০% হওয়ার তিন মাসের সময় ৪ বছরে ১২৮ টাকা বেড়ে গেল। তার মূলধন কত ছিল?
(খ) ৬,৫০০ টাকা যে ব্যক্তি মুদ্রাফার ৪ বছরে মুদ্রাফা-আসলে ৮,৮৪০ টাকা হয়, ঐ একই ব্যক্তি মুদ্রাফার কত টাকা ৪ বছরে মুদ্রাফা-আসলে ১০,২০০ টাকা হবে?
(গ) বার্ষিক শতকরা ৮-৫০ টাকা চক্রবৃদ্ধি মুদ্রাফার ১০,০০০ টাকার ২ বছরের সবুজি মূল ও চক্রবৃদ্ধি মুদ্রাফা নির্ণয় কর।
(ঘ) কোনো শহরের বর্তমান জনসংখ্যা ৮০ লক্ষ ঐ শহরের জনসংখ্যা বৃদ্ধির হার প্রতি বছরে ৩০ হলে, ৩ বছর পর ঐ শহরের জনসংখ্যা কত হবে?

- ৩। যে কোনো একটি প্রশ্নের উত্তর দাও :—

- (ক) একটি আয়তাকার বাগানের দৈর্ঘ্য ৩২ মিটার এবং প্রস্থ ২৪ মিটার। এর ভিতরে চারদিকে ২ মিটার চওড়া একটি রাস্তা আছে। রাস্তার চারদিকের ক্ষেত্রফল নির্ণয় কর।
(খ) একটি ঘরের মেঝে কাপেট দিয়ে ঢাকতে মেট্রি ৭,২০৬ টাকা ব্যয় হয়। ঘরের প্রস্থ ৩ মিটার কম হলে ৫৭৬ টাকা কম ব্যয় হতো। ঘরের দৈর্ঘ্য কত?

সীমাপনিত

মান—৩০

- ৪। যে কোনো দুইটি প্রশ্নের উত্তর দাও :—

- (ক) $a - \frac{1}{a} = m$ হলে, দেখাও যে $a^4 + \frac{1}{a^4} = m^4 + 4m^2 + 2$.
(খ) $a - \frac{1}{a} = 5$ হলে, $a^3 - \frac{1}{a^3}$ 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) ল. সা. ও নির্ণয় কর :

$$6x^2 - x - 1, 3x^2 + 7x + 2 \text{ এবং } 2x^2 + 3x - 2.$$

- ৫। যে কোনো একটি প্রশ্নের উত্তর দাও :—

- (ক) সরল কর :

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

- (খ) সরল কর :

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

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