খ সেট

জুনিয়র স্কুল সার্টিফিকেট পরীক্ষা, ২০১৭
গণিত (সৃজনশীল + বহুনির্বাচনি অভীক্ষা)

বিষয় কোড : | 1 | 0 | 9 |

সময়—৩ ঘণ্টা
পূর্ণমান—৮০+২০=১০০

সৃজনশীল প্রশ্ন
মান—৭০

[বিঃদ্রঃ —প্রত্যেক প্রশ্নের উত্তর দিতে হবে। ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রদত্ত উদ্দীপকগুলো মনোযোগসহকারে পড়ে এবং সংশ্লিষ্ট প্রশ্নের উত্তর দাও।
ক, খ ও গ বিভাগ থেকে দুইটি করে এবং ঘ বিভাগ থেকে একটিসহ মোট সাতটি প্রশ্নের উত্তর দিতে হবে।]

ক বিভাগ—পাটিগণিত   মান

১।   ৭, ১৬, ২৫, ৩৪, ৪৩, ...
   (ক) ২৫ এবং ৩৪কে দুইটি বর্গের সমষ্টিরূপে প্রকাশ কর।   ২
   (খ) তালিকার ২০তম সংখ্যাটি নির্ণয় কর।   ৪
   (গ) তালিকার ১ম ৩০টি সংখ্যার সমষ্টি নির্ণয় কর।   ৪

২।   এক ব্যক্তি বার্ষিক শতকরা ১০ টাকা মুনাফায় ২০০০ টাকা ৩ বছরের জন্য ব্যাংকে জমা রাখলেন।
   (ক) ১ম বছরের মুনাফা-আসল নির্ণয় কর।   ২
   (খ) সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য নির্ণয় কর।   ৪
   (গ) একই হার সরল মুনাফায় উক্ত আসল কত বছরে মুনাফা-আসলে দ্বিগুণ হবে?   ৪

৩।   একটি ঘরের দৈর্ঘ্য প্রস্থের ৪ গুণ। প্রতি বর্গমিটার ১২.৫০ টাকা দরে ঘরটির মেঝে কার্পেট দিয়ে ঢাকতে মোট ৫২৫০ টাকা খরচ হয়।
   (ক) ঘরটির ক্ষেত্রফল নির্ণয় কর।   ২
   (খ) ঘরটির দৈর্ঘ্য ও প্রস্থ নির্ণয় কর।   ৪
   (গ) ঘরটির উচ্চতা ৩ মিটার এবং এর দেয়ালগুলো ২০ সে. মি. পুরু হলে তার আয়তন নির্ণয় কর।   ৪

খ বিভাগ—বীজগণিত

৪। $x^2 - \sqrt{3}\,x + 1 = 0$
   (ক) $x + \dfrac{1}{x}$ এর মান নির্ণয় কর।   ২
   (খ) প্রমাণ কর যে, $x^3 - \dfrac{1}{x^3} = 4$ ৪
   (গ) $x^6 - \dfrac{1}{x^6}$ এর মান নির্ণয় কর।   ৪

৫। $A = x^2 - 5x + 6,\ B = x^2 - 9,\ C = x^2 + 4x + 3$
   (ক) $\dfrac{C}{x^2 + x}$ কে লঘিষ্ঠ আকারে প্রকাশ কর।   ২
   (খ) সরল কর। $\dfrac{1}{A} + \dfrac{1}{B}$ ৪
   (গ) $\dfrac{1}{A} + \dfrac{1}{B} + \dfrac{1}{C}$ কে সাধারণ হরবিশিষ্ট ভগ্নাংশে প্রকাশ কর।   ৪

৬।   কোন ভগ্নাংশের লবের সাথে 3 যোগ করলে এর মান 1 হয়। আবার হরের সাথে 2 যোগ করলে এর মান $\dfrac{1}{2}$ হয়।
   (ক) ভগ্নাংশটিকে $\dfrac{x}{y}$ ধরে সমীকরণ জোট গঠন কর।   ২
   (খ) ভগ্নাংশটি নির্ণয় কর।   ৪
   (গ) লেখচিত্রের সাহায্যে সমীকরণ জোটের সমাধান কর।   ৪

[পরের পৃষ্ঠা দ্রষ্টব্য]

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Hussin A.Rothana

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Table of Contents Question Out Paper J S C

1. Understanding the eBook Question Out Paper J S C
    - The Rise of Digital Reading Question Out Paper J S C
    - Advantages of eBooks Over Traditional Books
2. Identifying Question Out Paper J S C
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Question Out Paper J S C
    - User-Friendly Interface
4. Exploring eBook Recommendations from Question Out Paper J S C
    - Personalized Recommendations
    - Question Out Paper J S C User Reviews and Ratings
    - Question Out Paper J S C and Bestseller Lists
5. Accessing Question Out Paper J S C Free and Paid eBooks

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