

গণিত (সৃজনশীল)

সময়-২ ঘণ্টা ৩০ মিনিট। প্রকৃতি : ক, খ ও গ বিভাগ থেকে দুইটি করে এবং ঘ বিভাগ থেকে একতিনই মোট সাতটি প্রশ্নের উত্তর দাও।। মান-৭০

ক বিভাগ : পার্টিশনিত

১। নিম্নোক্ত চিত্রে নিম্নোক্তভাবে নির্দেশিত ত্রিভুজগুলোর পার্টিশন তৈরি করা হয়েছে।



- (ক) চতুর্থ চিত্রে নিম্নোক্তভাবে পার্টিশন তৈরি করা হয়েছে। ২
(খ) পার্টিশনিত পরবর্তী সংখ্যাটি কীভাবে বের করবে তা ব্যাখ্যা কর। ৪
(গ) শততম পার্টিশন তৈরিতে কতগুলো নিম্নোক্তভাবে পার্টিশনিত ত্রিভুজের প্রয়োজন? ৪
২। একই হারে চক্রবৃদ্ধি মূল্যায়ন করলে মূলধন এক বছরান্তে সবুজমূল ১৯৫০০ টাকা এবং দুই বছরান্তে সবুজমূল ২০২৮০ টাকা হলো।
(ক) মূলধন নির্ণয় কর। ২
(খ) মূলধন নির্ণয় কর। ৪
(গ) একই হারে উক্ত মূলধনের জন্য ৩ বছর পর সরল মূল্য ৩ চক্রবৃদ্ধি মূল্যায়ন পার্থক্য নির্ণয় কর। ৪

- ৩। একটি ঘরের প্রস্থ দৈর্ঘ্যের $\frac{2}{3}$ অংশ। ঘরের দৈর্ঘ্য ও উচ্চতা যথাক্রমে ১৫ মিটার ও ৪ মিটার। ঘরের চতুর্ভুজের ১ মিটার ফাঁকা রেখে ৫০ সে.মি. বর্গাকার পাথর বসানো হলো। বায়ু পানির তুলনায় ০.০০১২৯ গুণ ভারী।
(ক) ঘরের পরিমাপ নির্ণয় কর। ২
(খ) কতটি পাথরের প্রয়োজন হবে? ৪
(গ) ঘরটিতে কত কিলোগ্রাম বায়ু আছে? ৪

খ বিভাগ : বীজপণিত

- ৪। $15x^2 + 4x - 3$, $x^2 - 16x$, $3x^2 - 11x - 4$, $x^3 - 64$
(ক) সূত্রের সাহায্যে গুণফল নির্ণয় কর : $(p + q)(p + 2q)$ ২
(খ) প্রথম রাশিকে দুটি বর্গের অন্তরবেশে প্রকাশ কর। ৪
(গ) শেষ রাশি তিনটির গ.সা.গু. নির্ণয় কর। ৪
৫। $P = \frac{x^2 + 3x - 4}{x^2 + 7x + 12}$, $Q = \frac{x^2 + 2x - 3}{x^2 + 6x - 7}$, $R = \frac{x^2 + 12x + 35}{x^2 + 4x - 5}$
তিনটি বীজপণিতিক রাশি।

- (ক) $\left(\frac{2x+y}{x+y} - 1\right) + \left(1 - \frac{y}{x+y}\right)$ কে সরল কর। ২
(খ) $(P + Q - R) =$ কত? ৪
(গ) প্রমাণ কর যে, $Q \times R + \frac{x^2 - 9}{x^2 - 4x + 3} = 1$ ৪

- ৬। দুইটি সংখ্যার প্রথমটির তিনগুণের সাথে দ্বিতীয়টির চারগুণ যোগ করলে ১৪ হয়। আবার, প্রথমটির চারগুণ থেকে দ্বিতীয়টির তিনগুণ বিয়োগ করলে ২ হয়।
(ক) চলকের মাধ্যমে সমীকরণদ্বয় গঠন কর। ২
(খ) সমীকরণদ্বয়কে অপসারণ পদ্ধতিতে সমাধান করে সংখ্যার নির্ণয় কর। ৪
(গ) সমীকরণদ্বয়কে লেখচিত্রের সাহায্যে সমাধান করে সংখ্যার নির্ণয় কর। ৪

উত্তরমালা

- ১। সাজেশনের অধ্যায় ১ এর সৃজনশীল ১০ নং প্রকৃতি।
২। সাজেশনের অধ্যায় ২ এর সৃজনশীল ১১ নং প্রকৃতি।
৩। সাজেশনের অধ্যায় ৩ এর সৃজনশীল ১০ নং প্রকৃতি।
৪। সাজেশনের অধ্যায় ৪ এর সৃজনশীল ১৫ নং প্রকৃতি।
৫। সাজেশনের অধ্যায় ৫ এর সৃজনশীল ১০ নং প্রকৃতি।
৬। সাজেশনের অধ্যায় ৬ এর সৃজনশীল ১২ নং প্রকৃতি।

গ বিভাগ : জ্যামিতি

৭।



- (ক) PQST কী ধরনের চতুর্ভুজ? স্বপক্ষে যুক্তি দাও। ২
(খ) দেখাও যে, ΔPRT সমকোণী। ৪
(গ) প্রমাণ কর যে, $PR^2 = PQ^2 + QR^2$ ৪
৮। একটি চতুর্ভুজের দুইটি সম্মিতিত বাহু ৪ সে.মি., ৫ সে.মি. এবং তিনটি কোণ যথাক্রমে 110° , 85° ও 60° ।
(ক) উদ্ভীপকের তথ্যগুলোর চিত্র আঁক। ২
(খ) অঙ্কনের চিত্র ও বিবরণসহ চতুর্ভুজটি আঁক। ৪
(গ) প্রদত্ত বাহু দুইটি কোনো বিন্দুসহ দুইটি কর্ণ হলে বিন্দুটি অঙ্কন কর। (অঙ্কনের চিত্র ও বিবরণ আবশ্যিক)। ৪
৯। O কেন্দ্রবিশিষ্ট বৃত্তের AB ব্যাস এবং CD ব্যাস তিনটি একই জ্যা।
(ক) ৬.৪ মিটার ব্যাসের বৃত্তাকার একটি মাঠের ক্ষেত্রফল নির্ণয় কর। ২
(খ) প্রমাণ কর যে, $AB > CD$ ৪
(গ) E, CD এর মধ্যবিন্দু হলে প্রমাণ কর যে, $OE \perp CD$ ৪

ঘ বিভাগ : পরিসংখ্যান

- ১০। নিচে ৩০ জন শিক্ষার্থীর গণিত বিষয়ে প্রাপ্ত নম্বর দেওয়া হলো—
৪০, ৬০, ৫০, ৮৪, ৪৬, ৭২, ৩৬, ৬২, ৭২, ৮০, ৬৪,
৭৮, ৫৬, ৬০, ৪২, ৮২, ৭৫, ৬২, ৩৮, ৪৪, ৫৯, ৫৪,
৬০, ৭০, ৮৫, ৫৫, ৭২, ৬০, ৮৬, ৮৮।

- (ক) প্রদত্ত উপাত্তের মধ্যক নির্ণয় কর। ২
(খ) শ্রেণিবিভাজিত ৫ ধরে গণসংখ্যা নিবেশন সারণি তৈরি কর। ৪
(গ) প্রদত্ত উপাত্তের আয়তলেখ অঙ্কন কর ও বর্ণনা কর। ৪
১১। ৫০ জন ছাত্রীর পড়িতের নম্বরের গণসংখ্যা নিবেশন সারণি দেওয়া হলো :

প্রাপ্ত নম্বর	৬০	৬৫	৭০	৭৫	৮০	৮৫
গণসংখ্যা	৫	৮	১১	১৫	৮	৩

- (ক) মধ্যক নির্ণয় কর। ২
(খ) গড় নির্ণয় কর। ৪
(গ) প্রদত্ত উপাত্তের পার্শ্বচিত্র আঁক। ৪

- ৭। জ্যামিতি সাজেশনের সৃজনশীল ৩৮ নং প্রকৃতি।
৮। জ্যামিতি সাজেশনের সৃজনশীল ৪৮ নং প্রকৃতি।
৯। জ্যামিতি সাজেশনের সৃজনশীল ৪৫ নং প্রকৃতি।
১০। সাজেশনের অধ্যায় ১১ এর সৃজনশীল ৪৪ নং প্রকৃতি।
১১। সাজেশনের অধ্যায় ১১ এর সৃজনশীল ৩৪ নং প্রকৃতি।

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