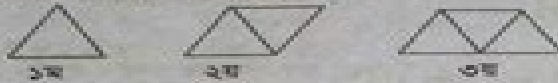


গণিত (সৃজনশীল)

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 কয়েকটি ত্রিভুজগুলোর পার্টিশন তৈরি করা হয়েছে।



- (ক) চতুর্থ চিত্রে নিম্নোক্তভাবে কয়েকটি ত্রিভুজগুলোর পার্টিশন তৈরি করা হয়েছে। ২
(খ) পার্টিশনিত পরবর্তী সংখ্যাটি কীভাবে বের করবে তা ব্যাখ্যা কর। ৪
(গ) শততম পার্টিশন তৈরিতে কতগুলো নিম্নোক্তভাবে কয়েকটি ত্রিভুজগুলোর পার্টিশন তৈরি করা হয়েছে? ৪
২। একই হারে চতুর্থ চিত্রে মূলফল কেবল মূলফল এক বছরান্তে সবুজমূল ১৯৫০০ টাকা এবং দুই বছরান্তে সবুজমূল ২০২৮০ টাকা হলো।
(ক) মূলফল নির্ণয়ের সূত্রটি লিখ। ২
(খ) মূলফল নির্ণয় কর। ৪
(গ) একই হারে উক্ত মূলফলের জন্য ৩ বছর পর সরল মূলফল ও চতুর্থ চিত্রে মূলফল 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) $\left(\frac{2x+y}{x+y} - 1\right) \div \left(1 - \frac{y}{x+y}\right)$ 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। সাজেশপের অধ্যায় ১ এর সৃজনশীল ১০ নং প্রকৃতি।
২। সাজেশপের অধ্যায় ২ এর সৃজনশীল ১১ নং প্রকৃতি।
৩। সাজেশপের অধ্যায় ৩ এর সৃজনশীল ১০ নং প্রকৃতি।
৪। সাজেশপের অধ্যায় ৪ এর সৃজনশীল ১৫ নং প্রকৃতি।
৫। সাজেশপের অধ্যায় ৫ এর সৃজনশীল ১০ নং প্রকৃতি।
৬। সাজেশপের 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 সম্মিহিত 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 বিন্দুর 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 সাজেশপের সৃজনশীল ৩৮ নং প্রকৃতি।
৮। জ্যামিতি সাজেশপের সৃজনশীল ৪৮ নং প্রকৃতি।
৯। জ্যামিতি সাজেশপের সৃজনশীল ৪৫ নং প্রকৃতি।
১০। সাজেশপের অধ্যায় ১১ এর সৃজনশীল ৪৪ নং প্রকৃতি।
১১। সাজেশপের অধ্যায় ১১ এর সৃজনশীল ৩৪ নং প্রকৃতি।

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I have a 2001 Daewoo Lanos. The engine revs is too fast. It Feb 22, 2008 — The first thing to do is to disconnect the idle air control valve. This is located on the side of the throttle body (where the throttle cable ... Daewoo Lanos Idle Rev issue Apr 1, 2010 — The car is a W reg. The problem is that the revs idle at around 1k, she says that when she is driving she can hear the revs going high even ... Daewoo Lanos high Idle speed Hi,. My Daewoo Lanos is having a problem with its idle speed being too high. At a standstill it idles at about 1600rpm, and can be a bit embarrassing SOLVED: My daewoo lanos 1999 wont idle at the lights it Feb 23, 2011 — Remove the idle air control motor (IAC) and clean it well and the hole it comes out of with throttle body spray cleaner, or carburetor cleaner ... Daewoo Lanos Stalls: causes and solutions Hello, I have a Lanos and its problem is that it is always powerless and tends to stall. When turning the air conditioning on, this failure is even more ... Rough Idle: Hi Again Everyone, My Lanos ... May 21, 2009 — Hi Again everyone, my lanos idles very rough, doesn't stall, seems to lack power when driving, recently replaced plugs, leads, air filter ... My 2001 Daewoo has a rough idle after. Dec 30, 2012 — It shakes and studders a lot. Sometimes the car stalls and I have to press the gas pedal in order for the car to keep running. After it warms up ... my 2001 daewoo lanos keeps dying when i come to a stop Jun 2, 2014 — I have Daewoo lanos 16v it can't start plugs firering timing is good i spre yqikstart meas start fluid nothing happen it doesn't have camshaft ... Daewoo Matiz Idle Woes - YouTube Daewoo Lanos Idle Air Control Valve Order Daewoo Lanos Idle Air Control Valve online today. Free Same Day Store Pickup. Check out free battery charging and engine diagnostic testing while you ... Pipe fitter NCCER Flashcards Study Flashcards On Pipe fitter NCCER at Cram.com. Quickly memorize the terms, phrases and much more. Cram.com makes it easy to get the grade you want! Pipefitter Nccer V4 study guide Flashcards Study with Quizlet and memorize flashcards containing terms like OSHA approved anchorage point, 3 1/2, 30 PSI and more. Free Pipefitter Practice Test with Questions and Answers 2023 This is a free Pipefitter practice test with full answers and explanations, to give you a taste of the real exam. Pipefitter Test - Fill Online, Printable, Fillable, Blank | pdfFiller General pipefitter interview questions Tell us something about yourself. How did you know about this job opportunity? Do you know anyone already working for ... Pipefitting Pipefitting covers key concepts of installation and repair of high- and low-pressure pipe systems used in manufacturing, in the generation of electricity and ... pipe fitter test Flashcards Study with Quizlet and memorize flashcards containing terms like What does TE in TE-601 stand for?, what does B.T.U stand for?, what is the boiling point of ... nccer pipefitter test answers Discover videos related to nccer pipefitter test answers on TikTok. Nccer Pipefitting Level 2 Drawings And Detail Sheets Study Flashcards On Nccer pipefitting level 2 drawings and detail sheets at Cram.com. Quickly memorize the terms, phrases and much more. The Think and Grow Rich Action Pack: Learn the Secret ... Napoleon

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