

সৃজনশীল অংশ : পাটিগণিত

অধ্যায় ১

১। নিচের জ্যামিতিক চিত্রগুলো একটি পাটিনের তৈরি করেছে যা সমান ঠোঙের প্রত্যেকটি দিয়ে তৈরি।

jsc math suggestion, exam question paper, model question, mcq question, question pattern, preparation for dh boards

- (ক) পাটিনের চতুর্থ চিত্রটি তৈরি করে যেনোশেখর সংখ্যা নির্ণয় কর। ২
(খ) পাটিনটি কোন বীজগণিতীয় রাশিতে সমর্থন করে তা খুঁটিয়ে উপস্থাপন কর। ৪
(গ) পাটিনটির পঞ্চাশতম চিত্র তৈরি করতে যেটি কাজটি যেনোশেখর সরকার হলে তা নির্ণয় কর। ৪

উত্তর : (ক) ২১টি (খ) $4n + 3$ (গ) ৬৪২৫

২। নিচের জ্যামিতিক চিত্রগুলো কাজি দিয়ে তৈরি করা হয়েছে।



- (ক) কাজির সংখ্যার তালিকা কর। ২
(খ) তালিকার পরবর্তী সংখ্যাটি বীজগণিত বের করবে তা ব্যাখ্যা কর। ৪
(গ) কাজি দিয়ে পরবর্তী চিত্রটি তৈরি কর এবং তোমার উত্তর যাচাই কর। ৪

উত্তর : (ক) ৪, ৭, ১০ (খ) ১৩

৩। নিম্নলিখিতের কাজি দিয়ে নিচের চিত্রগুলোর পাটিন তৈরি করা হয়েছে।



- (ক) চতুর্থ পাটিনে নিম্নলিখিতের কাজির সংখ্যা বের কর। ২
(খ) পাটিনটির পরবর্তী সংখ্যাটি বীজগণিত বের করবে তা ব্যাখ্যা কর। ৪
(গ) শততম পাটিন তৈরিতে কতগুলো নিম্নলিখিতের কাজির প্রয়োজন? ৪

উত্তর : (ক) ৯টি (খ) ২০১৪টি

৪। $(০ক + ২)$ একটি বীজগণিতীয় রাশি। (বহিঃস্থান কোর্স-২০১৪)

(ক) রাশিটির ১ম ও ২য় পদ কত? ২

(খ) উদ্ভিদকে অলসকে ৩য় ও ৪র্থ পদের জ্যামিতিক পাটিন অঙ্কন কর এবং অঙ্কনের সত্যতা যাচাই কর। ৪

(গ) রাশিটির প্রথম ১০০ পদের সমষ্টি নির্ণয় কর। ৪

উত্তর : (ক) ৭, ১২ (খ) ২০, ৪০০

৫। নিম্নলিখিত সংখ্যাগুলো লক্ষ কর : (মৌলিক কোর্স-২০১৪)

(ক) $০, ৩, ৬, ১২, ২১, ৩০, \dots$

(ক) উপরোক্ত তালিকার পর পর দুইটি সংখ্যা নির্ণয় কর। ২

(খ) প্রথম পাটিনটির পার্থক্য থেকে ১২টি সংখ্যার একটি পাটিন তৈরি কর এবং পাটিনটির বীজগণিতীয় রাশিটি লিখ। ৪

(গ) নতুন পাটিনটির ১ম ১২০টি পদের যোগফল কতের সাহায্যে নির্ণয় কর। ৪

উত্তর : (ক) ৪৮ ও ৬৬ (খ) $০, ৩, ৬, ৯, ১২, ১৫, ১৮, ২১, ২৪, ২৭, ৩০, ৩৩, ৩৬, ৩৯$ যেখানে $k = ১, ২, \dots$ বা আনুগত্যিক সংখ্যা। (গ) ২১৪২০

৬। $৮, ১০, ১৮, ২৪, ৩৬, \dots$

(ক) তালিকার প্রথম সংখ্যা দুটিকে কর্ণের সমষ্টিরূপে প্রকাশ কর। ২

(খ) তালিকার পরবর্তী চারটি সংখ্যা নির্ণয় কর। ৪

(গ) তালিকার ১ম ১০০টি পদের সমষ্টি নির্ণয় কর। ৪

উত্তর : (ক) $২^১ + ২^১, ২^১ + ২^১$ (খ) $৩০, ৩৬, ৪৮, ৬৮$ (গ) ২৪০৫০

৭। $০, ৬, ১১, ১৮, ২৭, \dots$

(ক) উদ্ভিদকে পাটিনটির পরবর্তী দুটি পদ নির্ণয় কর। ২

(খ) পাটিনটির জন্য একটি বীজগণিতীয় রাশি তৈরি করে ১০তম ও ২৫ তম পদ নির্ণয় কর। ৪

(গ) পাটিনটির ১ম ২৫টি পদের যোগফল নির্ণয় কর। ৪

উত্তর : (ক) $৩৬, ৪১$ (খ) $৩^১ + ২, ২২১, ৬২৭$ (গ) ৭৮৭৫

৮। জ্ঞান চরিত্র আনন্দ ৮ম শ্রেণির পড়িয়েছে প্রাচীন গির্জা এ প্রেরিত হয়ে সুমনকে ১ থেকে ১০০ পর্যন্ত আনন্দিক সংখ্যাগুলো লিখতে বলার সুমন সঠিকভাবে সংখ্যাগুলো কোর্সে লিখে। এরপর তিনি উদ্ভিদকে কতকটি

উত্তর : (ক) ২। (খ) ৪০৫০

(গ) মৌলিক সংখ্যাগুলোর ফলা : $২, ৩, ৫, ৭, ১১, ১৩, ১৭, ১৯, ২৩, ২৯, ৩১, ৩৭, ৪১, ৪৩, ৪৭, ৫৩, ৫৯, ৬১, ৬৭, ৭১, ৭৩, ৭৯, ৮৩, ৮৯, ৯৭$

(ক) তালিকার পরবর্তী চারটি সংখ্যা বের কর। ৪

উত্তর : (ক) চিরোমুক্তি সংখ্যার পাটিন। (খ) $৮, ১০, ১১, ৩৪$

১০। $২১, ২৫, ৩১, ৩৯, \dots$

(ক) ১ম সংখ্যাতিকে তিনটি সংখ্যার কর্ণের সমষ্টিরূপে এবং ২য় সংখ্যাতিকে দুইটি সংখ্যার কর্ণের সমষ্টিরূপে প্রকাশ কর। ২

(খ) ১ থেকে ১৫ পর্যন্ত আনন্দিক সংখ্যাগুলোর সমষ্টি বের করে সূত্র প্রতিষ্ঠা কর। ৪

(গ) ৩ প্রকারের আনন্দিক বর্ণ তৈরি কর যার আনন্দিক সংখ্যা ১৫। ৪

উত্তর : (ক) $১^১ + ২^১ + ৪^১, ৩^১ + ৪^১$ (খ) ১২০

১১। নিচের চিত্রগুলো লক্ষ কর :



(ক) কাজির সংখ্যার তালিকা কর। ২

(খ) তালিকার পরবর্তী ৫টি সংখ্যা নির্ণয় কর। ৪

(গ) ৫ম চিত্রটি অঙ্কন কর এবং শততম চিত্রে কাজির সংখ্যা কত হবে? ৪

উত্তর : (ক) $৬, ১১, ১৮, ২৪, ৩০, ৩৬, ৪২, ৪৮$ (খ) ৬০০টি

১২। $২২, ২৯, ৩৮, ৪৯, \dots$

(ক) ১০ অলসকে যেটি মৌলিক সংখ্যাগুলোর কর্ণের সমষ্টি ও এদের সমষ্টির কর্ণের অলসকে নির্ণয় কর। ২

(খ) তালিকার পরের দুইটি সংখ্যা নির্ণয় কর। ৪

(গ) সংখ্যাগুলোর পার্থক্য যে পাটিন তৈরি করে তার প্রথম দশটি সংখ্যার সমষ্টি নির্ণয় কর। ৪

উত্তর : (ক) ২০২ (খ) $৬২, ৭৭$ (গ) ১৬০

১৩। নিচের জ্যামিতিক চিত্রগুলো কাজি দিয়ে তৈরি করা হয়েছে।



(ক) কাজির সংখ্যার তালিকা তৈরি কর। ২

(খ) তালিকার পরবর্তী সংখ্যাটি বীজগণিত বের করবে তা ব্যাখ্যা কর। ৪

(গ) কাজি দিয়ে পরবর্তী চিত্রটি তৈরি কর এবং তোমার উত্তর যাচাই কর। ৪

উত্তর : (ক) $৭, ১২, ১৭, ২২$

(খ) $০, ৩, ৬, ১২, ২১, ৩০, \dots$

(গ) $৮, ১০, ১৮, ২৪, ৩৬, \dots$

(ক) তালিকার পরবর্তী সংখ্যাটি বীজগণিত বের করবে তা ব্যাখ্যা কর। ৪

(খ) কাজি দিয়ে পরবর্তী চিত্রটি তৈরি কর এবং তোমার উত্তর যাচাই কর। ৪

উত্তর : (ক) $৭, ১২, ১৭, ২২$

১৪। কোনো ৫০টি কপিরাইট প্রোগ্রাম থেকে নিচের সংখ্যাগুলো পাওয়া গেল :

$১, ২, ৪, ৭, ১২, ১৬, ২২$

(ক) তালিকার সংখ্যাগুলোর পার্থক্য নির্ণয় কর। ২

(খ) তালিকার সংখ্যাগুলোর একটি সংখ্যা পরিবর্তন করা হলে সংখ্যাগুলো একটি পাটিন তৈরি করে : সংখ্যাটি চিহ্নিত কর এবং উপযুক্ত সংখ্যাটি নির্ণয় কর। ৪

(গ) এ তালিকার সংখ্যাগুলোর একটি সংখ্যা পরিবর্তন করা হলে সংখ্যাগুলোর যে পাটিনটি তৈরি হয় তা থেকে তালিকার পরবর্তী চারটি সংখ্যা নির্ণয় কর। ৪

উত্তর : (ক) $১, ২, ৩, ৪, ৫, ৬$ (খ) $১২, ১১$ (গ) $২৯, ৩৭, ৪৬, ৫৬$

অধ্যায় ২

১৫। একজন ফল ব্যবসায়ী ঘণের থেকে ৩৬ টাকার ১২টি নরে কিছু সংখ্যক এবং সুতিয়া থেকে ৩৬ টাকার ১৮টি নরে সমান সংখ্যক কলা খরিস করল। ব্যবসায়ীর বিক্রয়করী ৩৬ টাকার ১৫টি নরে তা বিক্রয় করলেন।

(ক) ব্যবসায়ী ঘণের থেকে প্রতিদল কলা কি করে ক্রয় করেছিল? ২

(খ) বিক্রয়করী সবগুলো কলা বিক্রয় করলে শতকরা কত লাভ বা ক্ষতি হবে? ৪

(গ) ব্যবসায়ী ২৫% লাভ করতে চাইলে প্রতি দল কলা কি করে বিক্রয় করতে হবে? ৪

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