

সৃজনশীল অংশ : পাটিগণিত

অধ্যায় ১

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

jsc math suggestion, exam question paper, model question, mcq question, question pattern, preparation for dth 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 কাজটি নিয়ে তৈরি করা হয়েছে।



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

উত্তর : (ক) ৪, ৭, ১০ (খ) ১৩

৩। নিম্নলিখিতের কাজটি নিয়ে নিচের চিত্রগুলোর পাটিন তৈরি করা হয়েছে।



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

উত্তর : (ক) ৯টি (খ) ২০১৪টি

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

(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 ও ৩৬-৩৮, যেখানে $k = 1, 2, \dots$ বা আনুসঙ্গিক সংখ্যা। (গ) ২১৪২০

৬। ৮, ১০, ১৮, ২৪, ২৮, ...

(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) $2^2 + 2^2$, $2^2 + 2^2$ (খ) ৩০, ৩৬, ৪০, ৪৮ (গ) ২৪০৫০

৭। ০, ৬, ১১, ১৮, ২৭, ...

(ক) উদ্ভিদকের 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) $k^2 + 2$; ২২২; ৬২৭ (গ) ৭৮৭৫

৮। জানা গেল যে ১ম থেকে ১০০ পর্যন্ত আনুসঙ্গিক সংখ্যাগুলো লিখতে হলে মোট পত্রিকার সংখ্যাগুলো মোটে লিখল। 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, ...

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

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

(গ) ৩ থেকে ১৫ পর্যন্ত আনুসঙ্গিক সংখ্যাগুলোর সমষ্টি বের করে সূত্র প্রতিষ্ঠা কর। ৪

উত্তর : (ক) $1^2 + 2^2 + 3^2$; $3^2 + 4^2$ (খ) ১২০

১১। নিচের চিত্রগুলো লক্ষ কর :



(ক) কাজের সংখ্যার তালিকা কর। ২

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

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

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

১২। ২২, ২৮, ৩৮, ৪৮, ...

(ক) ১০ অংকের যেটি মৌলিক সংখ্যাগুলোর কর্ণের সমষ্টি ও এদের সমষ্টির কর্ণের অংক 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 কাজটি নিয়ে তৈরি করা হয়েছে।



(ক) কাজের সংখ্যার তালিকা তৈরি কর। ২

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

(গ) কাজটি নিয়ে পরবর্তী চিত্রটি তৈরি কর এবং তোমার উত্তর যাচাই কর। ৪

উত্তর : (ক) ৭, ১২, ১৭ (খ) ২২

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

উত্তর : (ক) ৭, ১২, ১৭ (খ) 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 পাটিন তৈরি হয় তা থেকে তালিকার পরবর্তী চারটি সংখ্যা নির্ণয় কর। ৪

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

অধ্যায় ২

১৫। একজন ফল ব্যবসায়ী ঘণ্টার থেকে ৩৬ টাকার ১২টি মারে কিছু সংখ্যক এবং দুপুরের ৩৬ টাকার ১৮টি মারে সমান সংখ্যক কলা খরিস করল। ব্যবসায়ীরা বিক্রয়করী ৩৬ টাকার ১৫টি মারে তা বিক্রয় করলেন।

(ক) ব্যবসায়ী ঘণ্টার থেকে প্রতিদিন 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 হালি কলা কি মারে বিক্রয় করতে হবে? ৪

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