স্পেশাল মডেল টেস্ট ও উত্তরসূত্র

মডেল টেস্ট ০১

গণিত

বিষয় কোড : ১০৯

সময়— ২ ঘণ্টা ৩০ মিনিট

সৃজনশীল প্রশ্ন

পূর্ণমান— ৭০

নির্দেশনা : ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। ক বিভাগ হতে দুইটি, খ বিভাগ হতে দুইটি, গ বিভাগ হতে দুইটি এবং ঘ বিভাগ হতে একটি করে মোট সাতটি প্রশ্নের উত্তর দাও।

ক বিভাগ : পাটিগণিত

১। ৫, ৯, ১৩, ১৭, ২১, ২৫, ...

ক. ৬ ক্রমের মাঝিক পদের মাঝিক সংখ্যা কত? ২

খ. ভাটিকার সংখ্যাগুলোর জন্য একটি বীজগণিতীয় রাশি নির্ণয় কর। ৪

গ. ভাটিকার প্রথম ৫০টি সংখ্যার সমষ্টি কত? ৪

২। কোন আসল ৩ বছরে মুনাফা মুনাফাসহ ৩৭৫০ টাকা এবং ৫ বছরে মুনাফা-আসলে ৪৭৫০ টাকা হয়।

ক. ৩ বছরের মুনাফা কত? ২

খ. আসল ও মুনাফার হার নির্ণয় কর। ৪

গ. একই হার মুনাফায় কত বছরে উক্ত মুনাফা মুনাফা-আসলে ৪২০০ টাকা হবে? ৪

৩। একটি ঘরের দৈর্ঘ্য তার প্রস্থের দেড়গুণ এবং ক্ষেত্রফল ২১৬ বর্গমিটার। প্রতিটি ২০ সে. মি. বর্গাকার পাথর দিয়ে ঘরটির মেঝে মোড়াতে হবে এবং প্রতিটি পাথরের মূল্য ১২.৫০ টাকা।

ক. ঘরের প্রস্থ ‘ক’ মিটার ধরে আসলে ক্ষেত্রফল নির্ণয়ের সমীকরণটি গঠন কর। ২

খ. উক্ত ঘরের পরিসীমার সমান পরিধিবিশিষ্ট একটি বর্গাকার ক্ষেত্রের ক্ষেত্রফল কত? ৪

গ. ঘরটির মেঝে মোড়াতে কত টাকা লাগবে? ৪

খ বিভাগ : বীজগণিত

৪। $a^2 + 1 = 4a$ হলে,

ক. $\left(a - \frac{1}{a}\right)^2 = $ কত? ২

খ. দেখাও যে, $a^4 + \frac{1}{a^4} = 194$ ৪

গ. $a^4 - \frac{1}{a^4}$ এর মান নির্ণয় কর। ৪

৫। $\frac{1}{1-p+p^2}$, $\frac{1}{1+p+p^2}$ এবং $\frac{2p}{1+p^2+p^4}$ তিনটি বীজগণিতীয় রাশি।

ক. ৩য় ভাটিকার রাশের উৎপাদকে বিশ্লেষণ কর। ২

খ. প্রমাণ কর যে, $\frac{1}{1-p+p^2} - \frac{1}{1+p+p^2} - \frac{2p}{1+p^2+p^4} = 0$ ৪

গ. রাশি তিনটির সরলতম সাধারণ হরবিশিষ্ট রাশিতে প্রকাশ কর। ৪

৬। $x + y = a - b$ .... (i)

$ax - by = a^2 + b^2$ .... (ii)

ক. $(a - b)$ কে (ii) নং সমীকরণে বসিয়ে সরল কর কিন্তু মানটি বের কর। ২

খ. প্রতিস্থাপন পদ্ধতিতে সমীকরণদ্বয় সমাধান কর। ৪

গ. লেখচিত্রের সাহায্যে (x, y) নির্ণয় কর। ৪

গ বিভাগ : জ্যামিতি

৭। ABCD একটি রম্বস যার AC ও BD কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ করেছে।

ক. প্রদত্ত তথ্যের আলোকে চিত্রটি আঁক। ২

খ. AC = BD হলে, প্রমাণ কর যে, ABCD একটি বর্গক্ষেত্র। ৪

গ. প্রমাণ কর যে, রম্বসের কর্ণদ্বয় পরস্পরকে সমকোণে সমদ্বিখণ্ডিত করে। ৪

৮। একটি সামান্তরিকের দুইটি সন্নিহিত বাহুর দৈর্ঘ্য যথাক্রমে 5 সে. মি. ও 7 সে. মি. এবং অন্তর্ভুক্ত কোণ 60°।

ক. প্রদত্ত তথ্যানুসারে চিত্রের মাধ্যমে প্রকাশ কর। ২

খ. অঙ্কনের চিত্র ও বিবরণসহ সামান্তরিকটি অঙ্কন কর। ৪

গ. সামান্তরিকটির বৃহত্তর বাহুর সমান কর্ণবিশিষ্ট একটি বর্গ অঙ্কন কর। (অঙ্কনের চিত্র ও বিবরণ আবশ্যক) ৪

৯। ABC একটি সমকোণী ত্রিভুজ এবং অতিভুজ AC।

ক. AB = 2 এবং BD = 3 হলে AD এর মান নির্ণয় কর। ২

খ. প্রমাণ কর যে, $AC^2 = AB^2 + BC^2$। ৪

গ. AB ও BC বাহুর মধ্যবিন্দু যথাক্রমে E ও D হলে প্রমাণ কর যে, $5AC^2 = 4(CE^2 + AD^2)$। ৪

ঘ বিভাগ : পরিসংখ্যান

১০। ৮ম শ্রেণির ৩৫ জন শিক্ষার্থীর গণিত বিষয়ে প্রাপ্ত নম্বর হলো :

৬০, ৭৮, ৭২, ৮৯, ৭৮, ৮৪, ৯১, ৭৭, ৮৮, ৬৭, ৮০, ৭৪, ৮২, ৭৭, ৭৬, ৭৪, ৬১, ৮০, ৬৫, ৭৬, ৮০, ৬৯, ৭৫, ৯৮, ৭২, ৮৮, ৬৫, ৭২, ৭০, ৮০, ৮৮, ৯১, ৮২, ৭২, ৮৯, ৮২।

ক. শ্রেণি ব্যবধান ৫ ধরে শ্রেণিসংখ্যা নির্ণয় কর। ২

খ. শ্রেণি ব্যবধান ৫ ধরে গণসংখ্যা নিবেশন সারণি তৈরি কর। ৪

গ. সারণি থেকে নম্বর নির্ণয় কর। ৪

১১। পটুয়াখালী সরকারি জুবিলী উচ্চ বিদ্যালয়ের ৮ম শ্রেণির ৬৫ জন ছাত্রের গণিত বিষয়ে প্রাপ্ত নম্বর নিম্নরূপ :

প্রাপ্ত নম্বর	০১–৬০	৬১–৭০	৭১–৮০	৮১–৯০	৯১–১০০
গণসংখ্যা	৬	১২	২৫	১৫	৭

ক. ক্রমযোজিত গণসংখ্যা নিবেশন তৈরি কর। ২

খ. সংক্ষিপ্ত পদ্ধতিতে গড় নির্ণয় কর। ৪

গ. প্রচুরক নির্ণয় কর। ৪

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