

জে এস সি পরীক্ষা ২০১৫ এর মডেল প্রশ্ন

গণিত

বিষয় কোড: ১০৯

সময় — ২ ঘণ্টা ১০ মিনিট

সৃজনশীল প্রশ্ন

পূর্ণমান — ৬০

[দ্রষ্টব্য: প্রতিটি বিভাগ হতে কমপক্ষে ১টি করে নিয়ে যে কোনো ৬টি প্রশ্নের উত্তর দাও। কোন পার্থক্য সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক।]

ক-বিভাগ: পটিপটিত

১. যদি সন্ধ্যার একটি কলকাতা সংস্থা থেকে ৯.৫০% মুদ্রাকার শর্তে ১০,০০০ টাকা কল নিলেন। তাকে চক্রবৃদ্ধি মুদ্রাকার কল পরিণেপ করতে হবে।

- ক. প্রারম্ভিক কলের ৯.৫০% এর পরিমাণ নির্ণয় কর। ২
- খ. ৩ বছর পর কল কত টাকা বৃদ্ধি পাবে? ৪
- গ. ৪ বছর পর সরল মুদ্রাকার কল পরিণেপ করলে তাকে কত টাকা কম দিতে হবে? ৪

২. একটি অয়তাকার বাগানের দৈর্ঘ্য ৬০ মিটার এবং প্রস্থ ৫০ মিটার। বাগানের ভেতরের চতুর্ভুজ ৩ মিটার চওড়া একটি রাস্তা আছে। বাগানটিতে ২ মিটার উচ্চ ও ২৫ সে.মি. পুরুত্ব বিশিষ্ট সীমানা প্রাচীর আছে।

- ক. রাস্তা বাসে বাগানের দৈর্ঘ্য ও প্রস্থ নির্ণয় কর। ২
- খ. রাস্তার ক্ষেত্রফল নির্ণয় কর। ৪
- গ. প্রাচীরের আয়তন নির্ণয় কর। ৪

খ-বিভাগ: বীজপণিত

৩. $a - \frac{1}{a} = 3$

ক. $\left(a + \frac{1}{a}\right)^2$ এর মান নির্ণয় কর। ২

খ. প্রমাণ কর যে, $a^4 + \frac{1}{a^4} = 119$ । ৪

গ. $\frac{a^2-1}{a}$ এর মান নির্ণয় কর। ৪

৪. দুই অঙ্ক বিশিষ্ট কোনো সংখ্যার অঙ্কদ্বয়ের সমষ্টির সাথে ৭ যোগ করলে যোগফল দশক স্থানীয় অঙ্কের তিনগুণ হয়। কিছু সংখ্যাটির সাথে ৭ যোগ করলে অঙ্কদ্বয় স্থান বিনিময় করে।

ক. দশক স্থানীয় অঙ্ক x এবং একক স্থানীয় অঙ্ক y হলে সমীকরণ জোড় গঠন কর। ২

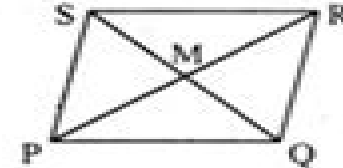
খ. সমীকরণ জোড়টি অশনয়ন পদ্ধতিতে সমাধান করে (x, y) নির্ণয় কর এবং সংখ্যাটি কত? ৪

গ. সমীকরণ জোড়টি লেখচিত্রের সাহায্যে সমাধান করে (x, y) এর গ্রাফ মানের সমজাত্য হাটাই কর। ৪

৫. সবিক সেট $U = \{1, 2, 3, 4, 5, 6\}$ এর উপসেট $A = \{x : x \text{ বিজোড় স্বাভাবিক সংখ্যা এবং } x < 7\}$ ও $B = \{x : x \text{ জোড় স্বাভাবিক সংখ্যা এবং } x < 7\}$

- ক. A ও B সেটদ্বয়কে তালিকা পদ্ধতিতে প্রকাশ কর। ২
- খ. প্রমাণ কর যে, $(A \cup B)' = A' \cap B'$ ৪
- গ. $(A - B) \cup (A \cap B)' \cup (A \cap B)'$ এর মান নির্ণয় কর। ৪

গ-বিভাগ: জ্যামিতি



চিত্রে, $PS = QR$ এবং $PS \parallel QR$

ক. PQ ভূমি বিশিষ্ট দুইটি ত্রিভুজের নাম লেখ। ২

খ. প্রমাণ কর যে, PQ ও RS পরস্পর সমান ও সমান্তরাল। ৪

গ. প্রমাণ কর যে, $PM = RM$ এবং $QM = SM$ । ৪

৬. $\triangle ABC$ এ $AB^2 = AC^2 + BC^2$ ।

ক. লিখাগোরেসের উপপাদ্যটি চিত্র সহ বিবৃত কর। ২

খ. প্রমাণ কর যে, $\angle C =$ এক সমকোণ। ৪

গ. $\triangle ABC$ এর দুটি মধ্যমা AD ও BE হলে প্রমাণ কর যে, $4(BE^2 + AD^2) = 5AB^2$ । ৪

৮. O কেন্দ্র বিশিষ্ট একটি বৃত্তে AB ও CD দুইটি সমান জ্যা, O থেকে AB ও CD এর উপর যথাক্রমে OE ও OF লম্ব, O, A ও O, C যোগ করা হলো।

ক. প্রদত্ত বর্ণনা অনুসারে চিত্র আঁক। ২

খ. চিত্র থেকে প্রমাণ কর যে, বৃত্তের সকল সমান জ্যা কেন্দ্র থেকে সমদূরবর্তী। ৪

গ. যদি O কেন্দ্র বিশিষ্ট বৃত্তে AB, CD ও EF তিনটি সমান জ্যা হয়, তবে প্রমাণ কর যে, তাদের মধ্য বিন্দুগুলো সমবৃত্ত। ৪

ঘ-বিভাগ: পরিসংখ্যান

৯. কাব্য স্টোকান থেকে ৪০টি পেয়ারা কিনল। পেয়ারাগুলোর ওজন (গ্রামে) নিচে দেওয়া হলো:

৮০, ৫৫, ৩০, ৭০, ১০০, ৭৫, ৮৫, ৯০, ৭০, ১১০, ৭০, ৭৫, ৮০, ৮০, ৬৫, ৮৫, ৩৫, ১০০, ৬০, ৩০, ৮৫, ৮০, ৯৫, ৮৫, ৮৫, ৭০, ৭৫, ১১০, ৬০, ৬৫, ৫৫, ৩০, ৭০, ৭৫, ৮৫, ৫৫, ৫০, ১০০, ৬০, ৮৮।

ক. প্রেসি ব্যান্ডি ১০ বারে প্রেসি সংখ্যা নির্ণয় কর। ২

খ. লগসংখ্যা নিবেশন সরাসরি তৈরি করে বড় নির্ণয় কর। ৪

গ. উপাত্তগুলোর আয়তলেখ অঙ্কন কর। ৪

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