

জে এস সি পরীক্ষা ২০১৫ এর মডেল প্রশ্ন

গণিত

বিষয় কোড:

১	০	৯
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সময় — ২ ঘণ্টা ১০ মিনিট

সৃজনশীল প্রশ্ন

পূর্বমান — ৬০

[তথ্য: প্রতিটি বিভাগ হতে কমপক্ষে ১টি করে নিয়ে যে কোনো ৬টি প্রশ্নের উত্তর দাও। তবে পার্থক্য সংখ্যা প্রশ্নের পূর্বমান জ্ঞাপক।]

ক-বিভাগ: পাঠ্যপুস্তক

১. যদি সন্দের একটি কলনাম সংখ্যা থেকে ৯.৫০% মুনাফার পরে ১০,০০০ টাকা কল নিলেন। তাকে চক্রবৃদ্ধি মুনাফার কল পরিশোধ 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 মুনাফার কল পরিশোধ 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: বীজপত্রিত

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 আলাক বিশিষ্ট কোনো সংখ্যার অঙ্কসংকে সমষ্টির সাথে ৭ যোগ করলে যোগফল দশক স্থানীয় অঙ্কের তিনগুণ হয়। কিছু সংখ্যাটির সাথে ৭ যোগ করলে অঙ্কসং 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 সমাজা যাচাই 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



৬.
 - ক. $PS = QR$ এবং $PS \parallel QR$ ২
 - খ. PQ তুমি বিশিষ্ট দুইটি ত্রিভুজের নাম লেখ। ২
 - গ. প্রমাণ কর যে, PQ ও RS পরস্পর সমান ও সমান্তরাল। ৪
 - ঘ. প্রমাণ কর যে, $PM = RM$ এবং $QM = SM$ । ৪
 ৭. ΔABC এ $AB^2 = AC^2 + BC^2$ ।
 - ক. নিখণ্ডেরূপের উপন্যাসটি চিত্র সহ বিবৃত কর। ২
 - খ. প্রমাণ কর যে, $\angle C =$ এক সমকোণ। ৪
 - গ. ΔABC 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 স্টোর থেকে ৪০টি পেরারা কিনল। পেরারাগুলোর ওজন (গ্রামে) নিচে দেওয়া হলো:

৮০, ৫৫, ৩০, ৭০, ১০০, ৭৫, ৮৫, ৯০, ৭০, ১১০, ৭০, ৭৫, ৪০, ৪০,
৬৫, ৪৫, ৩৫, ১০০, ৬০, ৩০, ৮৫, ৪০, ৯৫, ৮৫, ৪৫, ৭০, ৭৫, ১১০,
৬০, ৬৫, ৫৫, ৩০, ৭০, ৭৫, ৪৫, ৫৫, ৫০, ১০০, ৬০, ৮৫।

 - ক. প্রেসি ব্যান্ডি ১০ করে প্রেসি সংখ্যা নির্ণয় কর। ২
 - খ. লবসংখ্যা নিবেশন সরলি তৈরি করে লড় নির্ণয় কর। ৪
 - গ. উপাত্তগুলোর আয়তলেখ আঁকন কর। ৪

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