

সময়—৩ ঘণ্টা

পূর্ণমান—৬০ + ৪০ = ১০০

সৃজনশীল প্রশ্ন

মান—৬০

দ্রষ্টব্য :—জান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রতিটি বিভাগ থেকে কমপক্ষে একটি করে প্রশ্ন নিয়ে মোট ছয়টি প্রশ্নের উত্তর দাও।

ক বিভাগ—পাঠ্যগণিত

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|-----|--|-------|
| ১।  | একটি আয়তাকার বাগানের দৈর্ঘ্য ৪০ মিটার এবং প্রস্থ ৩০ মিটার। বাগানের ভেতর চারিদিকে ৩ মিটার চওড়া একটি রাস্তা আছে। ২৫ সে.মি. দৈর্ঘ্য এবং ১২.৫ সে. মি. প্রস্থবিশিষ্ট ইট দিয়ে রাস্তাটি পাকা করা হলো।                        | নম্বর |
| (ক) | বাগানের ক্ষেত্রফল নির্ণয় কর।  | ২     |
| (খ) | রাস্তার ক্ষেত্রফল নির্ণয় কর।  | ৪     |
| (গ) | রাস্তাটি পাকাকরণে প্রয়োজনীয় ইটের সংখ্যা বের কর।  | ৪     |
| ২।  | বাবুল হোসেন ৮% ক্ষতিতে একটি ছাগল বিক্রয় করলেন। কিন্তু ছাগলটি ৮০০ টাকা বেশি মূল্যে বিক্রয় করলে তাঁর ৮% লাভ হত। পরবর্তীতে তিনি ছাগলটির ক্রয়মূল্যের সমপরিমাণ টাকা বার্ষিক ১০% মুনাফায় ৩ বছরের জন্যে ব্যাংকে জমা রাখলেন। |       |
| (ক) | ৮% সরল মুনাফায় ৮০০ টাকার ৩ বছরের মুনাফা নির্ণয় কর।   | ২     |
| (খ) | ছাগলটির ক্রয়মূল্য নির্ণয় কর।   | ৪     |
| (গ) | উক্ত টাকা ব্যাংকে জমা রাখলে সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত হবে?   | ৪     |

খ বিভাগ—বীজগণিত

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|-----|--|---|
| ৩।  | $U = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } x < 8\};$<br>$P = \{1, 3, 5\};$<br>$Q = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } 1 < x \leq 7\}$ এবং<br>$R = \{2, 4, 6\}.$ |   |
| (ক) | $P^c$ নির্ণয় কর।  | ২ |
| (খ) | $(P \cap Q) \cup (Q \cup R)$ নির্ণয় কর।   | ২ |
| (গ) | প্রমাণ কর যে, $(Q \cup R)^c = Q^c \cap R^c.$   | ৪ |
| ৪।  | $3x + 2y = 12, 2x + 3y = 13$ দুটি সমীকরণ—  |   |
| (ক) | $(4, 0)$ বিন্দুটি প্রথম সমীকরণকে সিদ্ধ করে কিনা যাচাই কর।  | ২ |
| (খ) | অপনয়ন পদ্ধতিতে সমীকরণদ্বয়ের সমাধান কর।   | ৪ |
| (গ) | লেখচিত্র থেকে সমীকরণদ্বয়ের সমাধান নির্ণয় কর।   | ৪ |
| ৫।  | $x + \frac{1}{x} = 5$ একটি বীজগণিতিক সমীকরণ যেখানে $x > 0.$  |   |
| (ক) | $3x + \frac{3}{x}$ এর মান নির্ণয় কর।  | ২ |
| (খ) | $x^4 + \frac{1}{x^4}$ এর মান নির্ণয় কর।   | ৪ |
| (গ) | প্রমাণ কর যে, $x^2 - \frac{1}{x^2} \neq x^3 + \frac{1}{x^3}$   | ৪ |

গ বিভাগ—জ্যামিতি

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|-----|--|---|
| ৬।  | $ABCD$ একটি আয়তক্ষেত্র যার $AB = 3$ সে. মি. উহার $AC$ ও $BD$ কর্ণদ্বয় পরস্পরকে $O$ বিন্দুতে ছেদ করে। |   |
| (ক) | উন্নীপকের তথ্যগুলো চিত্রের সাহায্যে প্রকাশ কর।   | ২ |
| (খ) | প্রমাণ কর যে, $AC = BD$ এবং $AO = CO, BO = DO.$  | ৪ |
| (গ) | $AB$ কে একটি বাহুর দৈর্ঘ্য এবং $AC = 5$ সে. মি.-কে একটি কর্ণের দৈর্ঘ্য ধরে একটি রহস্য অঙ্কন কর।        | ৪ |

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

# Jsc 2014 Math

**Joacim Rocklöv**



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