জুনিয়র স্কুল সার্টিফিকেট পরীক্ষা, ২০১৪

গণিত (সৃজনশীল + বহুনির্বাচনি অভীক্ষা)

[২০১৪ সালের সিলেবাস অনুযায়ী]

বিষয় কোড : 1 0 9

সময়—৩ ঘণ্টা

পূর্ণমান—৬০ + ৪০ = ১০০

সৃজনশীল প্রশ্ন

মান—৬০

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

ক বিভাগ—পাটীগণিত

নম্বর

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।

(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

৩। $U = \{x : x$ স্বাভাবিক সংখ্যা এবং $x < 8\}$;
$P = \{1, 3, 5\}$;
$Q = \{x : x$ স্বাভাবিক সংখ্যা এবং $1 < x \le 7\}$ এবং
$R = \{2, 4, 6\}$.

(ক) P' নির্ণয় কর। ২

(খ) $(P \cap Q) \cup (Q \cup R)$ নির্ণয় কর। ২

(গ) প্রমাণ কর যে, $(Q \cup R)' = Q' \cap R'$. ৪

৪। $3x + 2y = 12$, $2x + 3y = 13$ দুটি সমীকরণ—

(ক) (4, 0) বিন্দুটি প্রথম সমীকরণকে সিদ্ধ করে কি-না 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 বীজগাণিতিক 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

৬। $ABCD$ একটি আয়তক্ষেত্র যার $AB = 3$ সে. মি. উহার AC ও BD কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ করে।

(ক) উদ্দীপকের 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 রম্বস অঙ্কন কর। ৪
[অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক]

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