

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। | $U = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } x < 8\};$
$P = \{1, 3, 5\};$
$Q = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } 1 < x \leq 7\}$ এবং
$R = \{2, 4, 6\}.$ | |
| (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 ডিহের 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।

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