

সময়—৩ ঘণ্টা

পূর্ণমান—৬০ + ৪০ = ১০০

সৃজনশীল প্রশ্ন

মান—৬০

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

ক বিভাগ—পাঠ্যগণিত

- | | | মান |
|---|--|-----|
| ১। একটি অয়তাকার 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। | | ২ |
| (ক) বাগানের ক্ষেত্রফল নির্ণয় কর। | | ৪ |
| (খ) রাস্তার ক্ষেত্রফল নির্ণয় কর। | | ৪ |
| (গ) রাস্তাটি পাকাকরণে প্রয়োজনীয় ইটের সংখ্যা বের কর। | | |
| 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। | | ২ |
| (ক) ৮% সরল মুনাফায় ৮০০ টাকার ৩ বছরের মুনাফা নির্ণয় কর। | | ৪ |
| (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। $U = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } x < 8\};$
$P = \{1, 3, 5\};$
$Q = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } 1 < x \leq 7\}$ 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

- | | | |
|---|--|---|
| ৬। ABCD একটি অয়তক্ষেত্র যার AB = 3 সে. মি. উহার AC ও BD কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ করে। | | |
| (ক) উল্লীপকের 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 |
| [অঙ্কনের চিত্র ও বিবরণ আবশ্যিক] | | |

[পর পৃষ্ঠা দ্রষ্টব্য]

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

Jsc Math Question 2014 Kha Set

**Josef Dick, Frances Y. Kuo, Henryk
Woźniakowski**



Jsc Math Question 2014 Kha Set:

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missing information to complete the notation ${}^{14}_{34}\text{p}$ ${}^{36}_{57}\text{mn}$ ${}^{121}_{56}\text{q}$ for each of the isotopes in question 21 2 3 determine the numbers of protons neutrons and electrons in a neutral atom of

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web nuclear chemistry vocabulary term 1 13 alpha particle click the card to flip definition 1 13 a positively charged atom that is released in the disintegration of radioactive elements and that consists of two protons and