

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

- | | | মান |
|----|--|-------------|
| 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।
(খ) রাস্তার ক্ষেত্রফল নির্ণয় কর।
(গ) রাস্তাটি পাকাকরণে প্রয়োজনীয় ইটের সংখ্যা বের কর। | ২
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| 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।
(খ) ছাগলটির ক্রয়মূল্য নির্ণয় কর।
(গ) উক্ত টাকা ব্যাংকে জমা রাখলে সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত হবে? | ২
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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।
(খ) $(P \cap Q) \cup (Q \cup R)$ নির্ণয় কর।
(গ) প্রমাণ কর যে, $(Q \cup R)^c = Q^c \cap R^c.$ | ২
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| ৪। | $3x + 2y = 12$, $2x + 3y = 13$ দুটি সমীকরণ—
(ক) $(4, 0)$ বিন্দুটি প্রথম সমীকরণকে সিদ্ধ করে কিনা যাচাই কর।
(খ) অপনয়ন পদ্ধতিতে সমীকরণদ্বয়ের সমাধান কর।
(গ) লেখচিত্র থেকে সমীকরণদ্বয়ের সমাধান নির্ণয় কর। | ২
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| ৫। | $x + \frac{1}{x} = 5$ একটি বীজগণিতিক সমীকরণ যেখানে $x > 0$.
(ক) $3x + \frac{3}{x}$ এর মান নির্ণয় কর।
(খ) $x^4 + \frac{1}{x^4}$ এর মান নির্ণয় কর।
(গ) প্রমাণ কর যে, $x^2 - \frac{1}{x^2} \neq x^3 + \frac{1}{x^3}$ | ২
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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) উল্লীপকের তথ্যগুলো চিত্রের সাহায্যে প্রকাশ কর।
(খ) প্রমাণ কর যে, $AC = BD$ এবং $AO = CO$, $BO = DO$.
(গ) AB কে একটি বাহুর দৈর্ঘ্য এবং $AC = 5$ সে. মি.-কে একটি কর্ণের দৈর্ঘ্য ধরে একটি রহস্য অঙ্কন কর।
[অঙ্কনের চিত্র ও বিবরণ আবশ্যিক] | ২
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[পর পৃষ্ঠা দ্রষ্টব্য]

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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Scott C. Dulebohn



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web the phase currents of the a b and c phases the position of the rotor the dc voltage at the input of the motor controller other signals such as iq id the duty cycles and etc are all generated using the math above such as the clarke and park transforms current controllers and svm

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web the control circuit is based on a cmos inverter ic1 type 40106 the motor is switched by a darlington with discrete components t1 t2 ic1a inverter operates as an oscillator whose duty cycle the t2 leads so the motor receives energy is determined by r2 c2 d3 gave the inactive signal oscillator when t2 is blocked is determined by r3 p1

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converting electrical energy into mechanical energy generally a torque this conversion is usually obtained through the generation of a magnetic field by means of a current flowing into one or more coils electrical energy

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web the diagram below has two components the normally open temperature switch and the magnetic contactor the three normally closed contacts that represent the olr protection are connected in series with the motor coil and so can be treated as a single device in practice a motor starter often only has two external connection points and all internal

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web motor control circuits are often connected to lower voltages than the motor they control to make it safer for operators and maintenance personnel

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web ically when voltage returns the control circuit is completed through the stop button and also a holding contact 2 3 on the starter when starter drops out this contact opens breaking the control circuit until the start button is pressed once again l3 t3 t

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web motor contactor or starter coils are typically designated by the letter m in ladder logic diagrams

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web an mcc comprises three buses for a three phase system and the cabinet consists of a circuit breaker a motor starter and a control transformer however the actual contents vary widely as per requirements the circuit breaker has a handle that goes through the door to switch it off without opening it for safety purposes

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