# জুনিয়র সুল সাটিফিকেট শরীকা, ২০১৪ গলিত (সৃজনশীল + বহুনির্বাচনি অজীকা) [২০১৪ সালের সিলেবাস অনুযায়ী]

বিষয় কোভঃ 1 0 9

সময়—৩ ঘণ্টা

পূৰ্ণমান—৬০ + ৪০ = ১০০

সৃজনশীল প্রশ্ন

মান-৬০

শ্রেষ্টব্য ঃ—ভান পাশের সংখ্যা প্রল্লের পূর্ণমান জ্ঞাপক। প্রতিটি বিভাগ থেকে কমপক্ষে একটি করে প্রশ্ন নিয়ে মোট ছয়টি প্রশ্নের উত্তর দাও।

#### ক বিভাগ---পাটীগণিত

একটি আয়তাকার বাগানের দৈর্ঘ্য ৪০ মিটার এবং প্রস্থ ৩০ মিটার। বাগানের ডেতর 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 ক্বেরফল নির্ণয় কর। 2 8 রান্তার ক্ষেত্রফল নির্ণায় কর। (গ) রাজাটি পাকাকরণে প্রয়োজনীয় ইটের সংখ্যা বের কর। বাবুল হোসেন ৮% ক্ষতিতে একটি ছাগল বিক্রয় করলেন। কিন্ত ছাগলটি ৮০০ টাকা বেশি মূল্যে বিক্রয় করলে তাঁর 21 ৮% লাভ হত। পরবর্তীতে তিনি ছাগলটির ক্রয়মূল্যের সমপরিমাণ টাকা বার্ষিক ১০% মুনাকায় ত বছরের জন্যে ব্যাংকে জমা রাবলেন। (क) ৮% সরল মুনাফায় ৮০০ টাকার ৩ বছরের মুনাফা নির্ণয় কর। হাগদানির ক্রমমূল্য নির্ণয় কর। (গ) উক্ত টাকা ব্যাংকে জমা রাখলে সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত হবে? ধ বিভাগ---বীজগণিত  $U = \{x : x$  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<sup>∞</sup> নির্ণয় কর । 2 (♥) (P ∩ Q) ∪ (Q ∪ R) নির্ণয় কর । 2 (গ) প্রমাণ কর যে, (Q∪R)' = Q' ∩ R'. 3x + 2y = 12, 2x + 3y = 13 দুটি সমীকরণ— (ক) (4, 0) বিন্দৃটি প্রথম সমীকরণকে সিদ্ধ করে কি-না ঘাচাই কর। 2 (খ) অপনয়ন পছতিতে সমীকরণছয়ের সমাধান কর। (গ) লেখচিত্র থেকে সমীকরণছয়ের সমাধান নির্ণয় কর।  $x + \frac{1}{x} = 5$  একটি বীজগাণিতিক সমীকরণ যেখানে x > 0. (ক) 3x + 3/x এর মান নির্ণয় কর। (খ) x<sup>4</sup> + 1/x<sup>4</sup> এর মান নির্ণয় কর। (গ) প্রমাণ কর যে,  $x^2 - \frac{1}{x^2} \neq x^3 + \frac{1}{x^3}$ গ বিভাগ—জামিতি ABCD একটি আয়তক্ষেত্র যার AB=3 সে. মি. উহার AC ও BD কর্ণছয় পরস্পরকে O বিন্দৃতে ছেদ করে। ক) উদ্দীপকের তথ্যগুলো চিত্রের সাহায্যে প্রকাশ কর। 2 (박) 전략적 주로 CT, AC = BD 숙각 AO = CO, BO = DO. AB কে একটি বাছর দৈর্ঘ্য এবং AC = 5 সে, মি.-কে একটি কর্ণের দৈর্ঘ্য ধরে একটি রম্বস অছন কর। [অম্বনের চিহ্ন ও বিবরণ আবশ্যক]

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

[পর পৃষ্ঠা দ্রষ্টব্য]

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