

০১ সেট

গণিত (সৃজনশীল)

[২০২৩ সালের সিলেবাস অনুযায়ী]

বিষয় কোড :

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সময়—২ ঘণ্টা ৩০ মিনিট

পূর্ণমান—৭০

[দ্রষ্টব্য : ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। ক বিভাগ বীজগণিত হতে দুটি, খ বিভাগ জ্যামিতি হতে দুটি, গ বিভাগ ত্রিকোণমিতি ও পরিমিতি হতে দুটি এবং ঘ বিভাগ পরিসংখ্যান হতে একটি করে মোট সাতটি প্রশ্নের উত্তর দাও।]

ক বিভাগ—বীজগণিত

নম্বর

$$R = \{x \in N : x \text{ মৌলিক সংখ্যা এবং } x^2 \leq 50\}$$

$$S = (cx - dy, cd) = (cd, dx - cy)$$

(ক) $F(x) = x^3 - 2x + 3$ হলে, $F(-3)$ নির্ণয় কর।

(খ) $P(R)$ নির্ণয় করে দেখাও যে, $P(R)$ এর উপাদান সংখ্যা 2^n কে সমর্থন করে, যেখানে n , R এর উপাদান সংখ্যা।

~~১৪~~ ক্রমজোড়ের নিয়মানুসারে S থেকে (x, y) এর মান নির্ণয় কর।

২। (i) $p^2 + q^2 = \sqrt[4]{64}$

(ii) $p^2 - q^2 = \sqrt[4]{81}$

(iii) $(a + 2) + \frac{1}{(a + 2)} = 5$

(ক) উৎপাদকে বিশ্লেষণ কর : $x^4 + 64$.

(খ) $8p^2q^2(p^4 + q^4)$ এর মান নির্ণয় কর।

(গ) (iii) নং উদ্দীপকের আলোকে দেখাও যে, $(a + 2)^5 + \frac{1}{(a + 2)^5} = 2525$.

[পর পৃ.



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