

০১ সেট

গণিত (সৃজনশীল)

[২০২০ 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 হতে দুটি, খ বিভাগ হতে দুটি, গ বিভাগ হতে দুটি এবং ঘ বিভাগ হতে একটি করে মোট সাতটি প্রশ্নের উত্তর দিতে হবে।]

ক বিভাগ—বীজগণিত

সংখ্যক

১। $A = \{x \in \mathbb{Z} : x^2 < 9\}$

$B = \{x \in \mathbb{N} : x \text{ মৌলিক সংখ্যা এবং } 1 < x \leq 5\}$

$S = \{(x, y) : x \in A, y \in B \text{ এবং } y - x = 1\}$

$f(x) = \frac{4x+1}{4x-1}$

(ক) $M = \{12, 15\}$, $N = \{15, a\}$ হলে $P(M \cap N)$ নির্ণয় কর।

২

(খ) S অবয়বে তালিকা পদ্ধতিতে প্রকাশ করে এর রেঞ্জ নির্ণয় কর।

৪

(গ) $\frac{f(x+2)-1}{f(x-2)-1} = -1$ হলে x এর মান নির্ণয় কর।

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২। $x^8 - 2x^4 + 1 = 0$, $x > 0$

$A = p + q$ এবং $B = p^2 - q^2$.

(ক) উৎপাদকে বিশ্লেষণ কর : $y^4 - 79y^2 + 1$.

২

(খ) $\frac{3}{2} \left(x^3 + \frac{1}{x^3} \right)$ এর মান নির্ণয় কর।

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(গ) $A = \sqrt{7}$, $B = \sqrt{35}$ হলে প্রমাণ কর যে, $\frac{1}{3} (p^3q + pq^3) = 1$.

৪

৩। (i) $3 + 6 + 12 + \dots$ ধারাটির প্রথম n সংখ্যক পদের সমষ্টি 1533.(ii) একটি সমান্তর ধারার p তম পদ q^2 এবং q তম পদ p^2 .(ক) $7 + 10 + 13 + 16 + \dots$ ধারাটির কোন পদ 160 তা নির্ণয় কর।

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(খ) n এর মান নির্ণয় কর।

৪

(গ) সমান্তর ধারাটির $(p-1+q)$ তম পদ নির্ণয় কর।

৪

[পর পৃষ্ঠা দ্রষ্টব্য]

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