

## 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।

৪

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।

৪

(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।

২

(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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