

০১ সেট

গণিত (সৃজনশীল)

[২০২৩ সালের সিলেবাস অনুযায়ী]

বিষয় কোড :

1 0 9

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।

(গ) 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



# Hsc Jessore Board 2013 Math Practicalquestion

**R. Brockman**



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