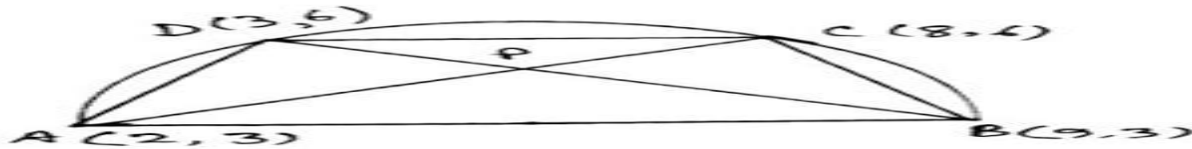সময় : ২ ঘণ্টা ১০ মিনিট

পূর্ণমান : ৪০

[বি.দ্র. প্রত্যেক বিভাগ থেকে কমপক্ষে ১ টি করে মোট ৪ টি প্রশ্নের উত্তর দিতে হবে। ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক।]

ক-বিভাগ: বীজগণিত

১। $F(x) = x^3 - 2x^2 + 1$ এবং $G(x) = x^3 - 3x - 2$ দুইটি বহুপদী।

ক) $F(x)$ কে $x + 1$ দ্বারা ভাগ করলে, যে ভাগশেষ থাকে তা ভাগশেষ উপপাদ্যের সাহায্যে নির্ণয় কর। ২

খ) $\frac{F(x)}{G(x)} = 0$ হলে, x এর মান নির্ণয় কর। ৪

গ) $\frac{F(x)}{G(x)}$ কে আংশিক ভগ্নাংশে প্রকাশ কর। ৪

২। $2 - x$, $1 + \frac{x}{2}$ এবং $x^2 - 3^{\frac{2}{3}} - 3^{\frac{2}{3}} + 2$ তিনটি বীজগাণিতিক রাশি।

ক) $(2 - x)^6$ এর বিস্তৃতির মধ্যপদ নির্ণয় কর। ২

খ) তৃ রাশির মান শূন্য হলে, প্রমাণ কর যে, $3x^3 + 9x + 8 = 0$; যেখানে $x < 0.8$ ৪

গ) x এর ঘাতের ঊর্ধ্বক্রম অনুসারে $(2 - x)\left(1 + \frac{x}{2}\right)^8$ কে x^3 পর্যন্ত বিস্তৃত কর। উক্ত ফলাফল ব্যবহার করে $1.99 \times (1.005)^8$ এর আসন্ন মান তিন দশমিক স্থান পর্যন্ত নির্ণয় কর। ৪

খ-বিভাগ: জ্যামিতি ও ভেক্টর

৩। $A(-5, 0)$, $B(0, -5)$, $C(10, 5)$ এবং $D(5, 10)$ চারটি বিন্দু। BC রেখা x-অক্ষকে E বিন্দুতে এবং AD রেখা y-অক্ষকে F বিন্দুতে ছেদ করেছে।

ক) AC ও BD রেখার ঢাল নির্ণয় কর। ২

খ) দেখাও যে, $ABCD$ একটি আয়ত। ৪

গ) বিন্দু চারটি দ্বারা গঠিত ক্ষেত্রের যে অংশ প্রথম চতুর্ভাগে অবস্থিত তার ক্ষেত্রফল নির্ণয় কর। ৪

৪।

চিত্রে $ADCB$ একটি অর্ধবৃত্ত। যার ব্যাস AB। AC ও BD জ্যাদ্বয় P বিন্দুতে ছেদ করেছে। P বিন্দুতে BD জ্যা $m : n$ অনুপাতে বিভক্ত হয়েছে।

ক) $ABCD$ চতুর্ভুজটির পরিসীমা নির্ণয় কর। ২

খ) B ও D বিন্দুর অবস্থান ভেক্টর যথাক্রমে $\underline{b}$ ও $\underline{d}$ হলে, প্রমাণ কর যে, P বিন্দুর অবস্থান ভেক্টর $= \frac{m\underline{d} + n\underline{b}}{m + n}$। ৪

গ) জ্যামিতিক উপায়ে প্রমাণ কর যে, $AB^2 = AC.AP + BD.BP$। ৪

গ-বিভাগ (ত্রিকোণমিতি ও সম্ভাবনা)

৫। $x = \sin\theta - \cos\theta + 1$
$y = \sin\theta + \cos\theta - 1$

ক) $\theta = (2x + 1)\frac{\pi}{2}$ হলে x ও y এর মান কত? যেখানে $x \in \mathbb{Z}$। ২

খ) দেখাও যে, $\frac{x}{y} = \frac{1 + \sin\theta}{\cos\theta}$ ৪

গ) সমাধান কর: $ny = 0$ যেখানে, $-2\pi \le \theta \le 2\pi$. ৪

৬। একজন শিক্ষক চারটি মুদ্রা ও একটি ছক্কা নিয়ে সম্ভাবনা সম্পর্কে শিক্ষা দান করছেন।

ক) শুধু ছক্কা নিক্ষেপ করলে ৩ এর গুণিতক না উঠার সম্ভাবনা কত? ২

খ) যদি কেবল চারটি মুদ্রা একত্রে নিক্ষেপ করা হয় তবে সম্ভাব্য সকল ফলাফল probability tree এর সাহায্যে লিখ। ৪

গ) যদি কেবল দুইটি মুদ্রা ও একটি ছক্কা একসাথে নিক্ষেপ করা হয় তবে ছক্কায় বিজোড় এবং মুদ্রায় একই ফলাফল পাওয়ার সম্ভাবনা কত? ৪

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