

HS : 2023 - 2024

f) Answer any one question:

4 X 1 = 4

i) এক বৃত্ত ভরসেতক বিন্দুকে কেন্দ্র করিতে গিরে লেখিলেন যে শেষ বিন্দুটি অঙ্ক তার মনে পড়িলে না, তত্ব মনে করিতে পারিলেন যে অঙ্কবিন্দুটি কি। তিনি সঠিক মাথারে কেন্দ্র করার সাহায্য নির্ণয় কর।

ii) একটি বিধির সমসত্ত্ব চলক x -এর সম্ভাব্য বিচলন নিম্নরূপ:

x	-2	-1	0	2	4
$P(x)$	0.1	0.2	0.4	0.25	0.05

x -এর মধ্যক ও বৈলম্ব নির্ণয় কর।

Group D:

4. a) Answer any one question:

5 X 1 = 5

i) মনে নির্ণয় কর: $\int_0^{\pi/2} \cos 3x \sin 2x \, dx$

ii) মনে নির্ণয় কর: $\int_0^{\pi/4} \frac{\sin x + \cos x}{9 + 16 \sin 2x} \, dx$

b) Answer any two questions:

5 X 2 = 10

i) যদি $xy = e^2$ হলে " t " বিন্দুতে অধিক অধিকার পুনরায় ব্যাক্তি " t' " বিন্দুতে হলে করে, তবে প্রমাণ কর যে $t^3 t' = -1$.

ii) যদি $f(x) = \frac{ax+b}{(x-1)(x-4)}$ অংশকটির $(2, -1)$ বিন্দুতে প্রতিক মনে থাকে তবে a ও b এর মনে নির্ণয় কর। এই বিন্দু বিন্দুতে হলে প্রমাণ নির্ণয় কর।

iii) $y = x^2$, $y = x + 2$ এবং x -অক্ষ দ্বারা সীমাবদ্ধ অঞ্চলের ক্ষেত্রফল সমান্তরালে দ্বারা নির্ণয় কর।

iv) $\{(x, y): x^2 \leq y \leq |x|\}$ অঞ্চলের ক্ষেত্রফল নির্ণয় কর।

c) Answer any one question:

5 X 1 = 5

i) দেখান যে সকল সমান্তরাল সরল রেখার $3(m-4)(n+m) = 0$ এবং $l+2m+3n = 0$ সমীকরণদ্বয়কে সিদ্ধ করে, তারা পরস্পর লম্ব।

ii) $f, (i+3j)+6=0$ এবং $f, (3i-j-4k)=0$ সমতলদ্বয়ের মিলেখণ্ডটি যে সমতল মূলবিন্দু থেকে একটি দূরত্বে অবস্থিত তার সঠিকভাবে নির্ণয় কর।

F.M : 80

Mathematics

TIME: 3 HRS

GROUP B

2. a) Answer any one question:

2 X 1 = 2

i) Z সেটের উপর * বিশল প্রক্রিয়াটি এমন ভাবে সংজ্ঞায়িত $a \cdot b = 3a + 4b - 2$, $\forall a, b \in Z$ । তবে $6 \cdot 7$ -এর মনে নির্ণয় কর।

ii) যদি $\triangle ABC$ একটি সমকোণী ত্রিভুজ হয় $\angle C = \pi/2$ হয়, তবে দেখান যে $\tan^{-1}\left(\frac{a}{b+c}\right) + \tan^{-1}\left(\frac{b}{c+a}\right) = \frac{\pi}{4}$

b) Answer any one question:

2 X 1 = 2

i) যদি $\begin{pmatrix} 3 & -2 \\ 5 & 6 \end{pmatrix}, C = \begin{pmatrix} 5 & 6 \\ -7 & 10 \end{pmatrix}$ এবং $A + 2B = C$ হয়, তবে B ম্যাট্রিক্সটি নির্ণয় কর।

ii) দেখান যে $\begin{vmatrix} x+1 & x+2 & x+4 \\ x+3 & x+5 & x+8 \\ x+7 & x+10 & x+14 \end{vmatrix}$ -এর মনে x - নির্ভরশীল।

c) Answer any three questions:

2 X 3 = 6

i) দেখান যে $\lim_{x \rightarrow \infty} \left(1 + \frac{a}{x}\right)^x = e^a$

ii) যদি $y = \frac{e}{1-x}$; $x = ct$ হয়, তবে $\frac{dy}{dx}$ -এর মনে নির্ণয় কর।

iii) $y = (x-3)^2$ হলে উপর যে বিন্দুতে অধিক স্পর্শক $(3, 0)$ ও $(4, 1)$ বিন্দুদ্বয়ের সংযোগক সরলরেখার সমান্তরাল, তার সমীকরণ নির্ণয় কর।

iv) $\cos 59^\circ$ -এর মনে মনে নির্ণয় কর (প্রদত্ত $1^\circ = 0.01745$)।

v) $x^2 + y^2 - 4x - 2y - 20 = 0$ বৃত্তটি থেকে $P(10, 7)$ বিন্দুটির দূরত্ব বৃত্ত নির্ণয় কর।

vi) যদি $x = 2 \cos t - \cos 2t$ এবং $y = 2 \sin t - \sin 2t$ হয়, তবে $\frac{d^2y}{dx^2}$ বিন্দুতে $\frac{d^2y}{dx^2}$ -এর মনে নির্ণয় কর।

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