

HS : 2023 - 2024

F.M : 80

Mathematics

TIME: 3 HRS

GROUP B

2. a) Answer any one question:

2x1=2

i) Z সেটের উপর * দ্বারা প্রক্রিয়াটি এমন ভাবে সংজ্ঞায়িত যে $a * b = 3a + 4b - 2$, $\forall a, b \in Z$ । তবে $6 * 7$ -এর মান 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:

2x1=2

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

ii) দেখান যে $\begin{vmatrix} x+1 & x+2 & x+4 \\ x+3 & x+5 & x+8 \\ x+7 & x+10 & x+14 \end{vmatrix} = 0$ -এর মান x- নির্দেশক।

c) Answer any three questions:

2x3=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 মান নির্ণয় কর।

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

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

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

f) Answer any one question:

4x1=4

i) এক বৃত্ত ভরসেতক বিন্দুকে কেন্দ্র করে ঘিরে লেখলে যে শেষ বিন্দুটি অঙ্ক ভরে মনে পড়বে না, তাকে মনে করতে পারলে যে অঙ্কবিন্দুটি ঠিক। তিনি সঠিকভাবে মনে করার সম্ভাবনা নির্ণয় কর।

ii) একটি বিকিরণ সমসত্ত্ব চাক x -এর সম্ভাবনা নিম্নোক্ত:

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

x -এর মধ্যক ও বৈকল্য নির্ণয় কর।

Group D:

4. a) Answer any one question:

5x1=5

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

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

b) Answer any two questions:

5x2=10

i) যদি $xy = e^2$ হলে "t" বিন্দুতে অধিক অধিকার পুনরায় "t'" বিন্দুতে মনে 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 মান থাকে তবে a ও b এর মান নির্ণয় কর। এই বিন্দু দুটির বক্রের প্রকৃতি 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:

5x1=5

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

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

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nuts for the 2008 2013 highlander in particular the oil pan drain plug bolt i also want the torque specs for the wheel lugs
grounding points etc doc lug nuts are 76 ft lbs 2012 highlander

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you must torque the lug nuts to the manufacturer s recommended lug nut torque of 76 ft lb or 103 nm you can go as high as
80 ft lb

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web toyota highlander rear control arms torque specs 83 ft lbs rear wheel hub installation the rear wheel hub on the toyota
highlander is held to the knuckle of the vehicle through the use of 4 bolts to remove the old wheel hub you must jack the
vehicle up into the air and remove the wheel from the car

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web on the 3 3l engine there is usually 6 to 7 of these bolts that are spread out around the outside of the housing each bolt
should be installed and then torqued down to 35 ft lbs while torqueing the bolts down be sure to check that nothing is
wedged between the engine and trans and that the torque converter is in its proper place

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web the new engine makes 265 horsepower and 309 pound feet of torque toyota says the combined fuel economy rating of 24

mpg is equal to that of the outgoing v 6 making us wonder why the switch to