

এইচ এস সি পরীক্ষা এর মডেল প্রশ্ন

বিষয় : উচ্চতর গণিত ২য় পত্র (তাত্ত্বিক)

সময় : ৩ ঘণ্টা

পূর্ণমান— ৭৫

[মুঠব্য : ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক ।]

ক-বিভাগ: বীজগণিত

১. যে কোনো দুইটি প্রস্থের উত্তর দিক: $৫ \times ২ = ১০$
- ক. সমাধান করে সমাধান সেট সংস্কারেণের দেখাও :
 $\frac{1}{(x+1)} \leq 5$, যেখানে $x \neq -1$
- খ. $a, b \in \mathbb{R}$ হলে প্রমাণ কর যে, $(a+b) \leq (a+b)$
- গ. যদি $x + y + z = 0$ এবং ax এককের একটি বাস্তবিক অনুলম্ব হয়, তবে দেখাও যে, $(x+y+z+ax)^2 + (x+y+z+ax)^2 = 27xyz$
২. যে কোনো দুইটি প্রস্থের উত্তর দিক: $৫ \times ২ = ১০$
- ক. $\frac{1}{x} + \frac{1}{y} = \frac{1}{z}$ সীতীকরণের মূল দুইটির অঙ্ক। হলে, p কে q এবং r এর মাধ্যমে প্রকাশ কর।
- খ. যদি $px^2 + qx + r = 0$ সীতীকরণের মূল দুইটির অনুপাত $m : n$ হয় তবে, দেখাও যে, $\sqrt{\frac{m}{n}} + \sqrt{\frac{n}{m}} = \sqrt{\frac{q}{p}}$
- গ. $(1+x)^n$ এর বিস্তৃতিতে 21 তম ও 22 তম পদ সমান হলে, x এর মান নির্ণয় কর।

খ-বিভাগ: জ্যামিতি

৩. যে কোনো দুইটি প্রস্থের উত্তর দিক: $৫ \times ২ = ১০$
- ক. $3x^2 + 30x + 2y + 30 = 0$ পরাবৃত্তের শীর্ষবিন্দু কোণে, উপকেন্দ্রিক লম্বের দৈর্ঘ্য এবং এর অক্ষের ও নিয়ামকের সমীকরণ নির্ণয় কর।
- খ. $y^2 = 16x$ পরাবৃত্তের উপস্থিতিতে কোন বিন্দুর উপকেন্দ্রিক দূরত্ব ৬; ঐ বিন্দুর স্থানাঙ্ক নির্ণয় কর।
- গ. একটি উপবৃত্তের সমীকরণ নির্ণয় কর যার উপকেন্দ্র $(3, 4)$ বিন্দুতে যার নিয়ামক $x + y - 2 = 0$ রেখা এবং যার উপকেন্দ্রের $\frac{1}{2}$ ।

গ-বিভাগ: ত্রিকোণমিতি

৪. যে কোনো দুইটি প্রস্থের উত্তর দিক: $৫ \times ২ = ১০$
- ক. প্রমাণ কর : $\sin \cos^{-1} \cos \sec^{-1} \frac{1}{y} = \frac{\sqrt{y^2-1}}{y}$
- খ. $\cos^{-1} \frac{1}{3} + \cos^{-1} \frac{2}{3} = 0$ হলে, দেখাও যে, $\sin^{-1} \frac{1}{3} + \sin^{-1} \frac{2}{3} = \frac{\pi}{2}$

- অথবা, ক. দুইটি অক্ষের মূল সমান্তরাল হলে লম্বের মান, দিক ও প্রমোদবিন্দু নির্ণয় কর।
- খ. P ও Q ($P > Q$) দুইটি বিন্দু সমান্তরাল হলে দুইটি বিন্দুতে কাঁটির আছে। যদি একে একে সমান্তরালে বৃদ্ধি করা হয়, তবে দেখাও যে, মূল লম্বের দ্বিগুণ বিন্দু P থেকে আরও দূরে সরে যাবে।
৫. ক. সরাসরি সাক্ষর হলে ক্রমিকভাবে পঞ্চমিকের প্রমাণ কর:
 $x^2 - y^2 = 2xy$ $৫ \times ২ = ১০$
- খ. একটি উপবৃত্তের চূড়া হলে এক বঙ্গ পানব x মিটার নিচে নামার পর অন্য এক বঙ্গ পানব চূড়ার y মিটার নিচে হলে বেলে দেওয়া হল। যদি উভয়েই পিছরাপেপা হয়ে পড়ে এবং একই সঙ্গে ভূমিতে পড়িত হয়, তবে দেখাও যে, উপবৃত্তের উচ্চতা $\frac{2(x+y)^2}{4x}$ মিটার।
- অথবা, ক. দেখাও যে, বায়ুতে স্বাভাবিক প্রকৃতির বায়ুর প্রতিপদ একটি পরাবৃত্ত।
- খ. একটি বস্তু একই বেগে অনুভূমিক হলের সাথে দুইটি ভিন্ন বেগে প্রকৃতির হয়ে একই অনুভূমিক পাতা x অতিক্রম করে। যদি তার অক্ষরকাল t_1 এবং t_2 হয়, তবে দেখাও যে, $t_2 = \frac{1}{2} t_1$

গ-বিভাগ: সোপাশ্রেণী প্রোগ্রাম

৬. সোপাশ্রেণী প্রোগ্রামে নিচ সোপাশ্রেণী প্রোগ্রামের সুবিধাগুলো লিখ। ৫
- অথবা, সোপাশ্রেণীর সাহায্যে সনিকরণ কর : $x = 2y - 3$
 কার্ড : $3y - x \leq 10$,
 $x + y \leq 6$,
 $x - y \leq 2$,
 $x, y \geq 0$

গ-বিভাগ: পরিশোধন

৮. যে কোনো দুইটি প্রস্থের উত্তর দিক: $৫ \times ২ = ১০$
- ক. মিশ্রণ পানির অধিহিতলে কলেজে একাদশ শ্রেণির বর্ষ সমাপনী পরীক্ষার পলিট ১ম পত্রের ১০ জন শিক্ষার্থীর প্রাপ্ত নম্বর নিম্নলিখিত :

নম্বরের শ্রেণি	30-40	40-50	50-60	60-70	70-80	80-90	90-100
শিক্ষার্থীর সংখ্যা	5	9	12	18	6		

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