ক-বিভাগ: বীজগণিত
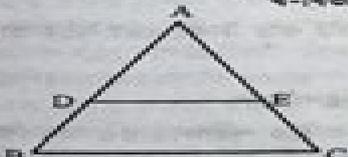
১. ▶ $U = \{1, 2, 3, 4, 5, 6, 7\}$

$A = \{x \in N : x^2 > 15$ এবং $x^2 < 225\}$

$B = \{x \in N : 4 \le x \le 7\}$

এবং $C = A \cup B$

ক. A সেটটি তালিকা পদ্ধতিতে প্রকাশ কর। ২

খ. উদ্দীপকের আলোকে প্রমাণ কর যে, $(A \cap B)' = A' \cup B'$ ৪

গ. C সেটের উপাদান সংখ্যা n হলে, দেখাও যে, P(C) এর উপাদান সংখ্যা 2^n কে সমর্থন করে। ৪

২. ▶ রাইসা তার বিদ্যালয় থেকে প্রাপ্ত বৃত্তি ও উপবৃত্তির মোট 10,000 টাকা 5 বছরের জন্য ব্যাংকে জমা রাখে। বার্ষিক মুনাফার হার ৪%। (সূত্র প্রযোজ্য)

ক. $x^2 - 5x - 6$ এর উৎপাদকে বিশ্লেষণ কর। ২

খ. সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য নির্ণয় কর। ৪

গ. সরল মুনাফার ক্ষেত্রে উক্ত টাকা কত বছরে মুনাফা-আসলে দ্বিগুণ হবে? ৪

৩. ▶ একটি ত্রিভুজের তিনটি বাহুর অনুপাত 5 : 8 : 12 এবং পরিসীমা 75 সে.মি.।

ক. ত্রিভুজের বাহু তিনটির মান নির্ণয় কর। ২

খ. ত্রিভুজের বড় এবং ছোট বাহুকে যথাক্রমে দৈর্ঘ্য এবং প্রস্থ ধরে অঙ্কিত আয়তের কর্ণের সমান দৈর্ঘ্য নিয়ে অঙ্কিত বর্গের ক্ষেত্রফল নির্ণয় কর। ৪

গ. উক্ত আয়তের দৈর্ঘ্যকে 10% বৃদ্ধি এবং প্রস্থকে 20% হ্রাস করলে ক্ষেত্রফল শতকরা কত হ্রাস বা বৃদ্ধি পাবে? ৪

খ-বিভাগ: জ্যামিতি

৪. ▶

চিত্রে, $\triangle ABC$ এর AB এবং AC এর মধ্যবিন্দু যথাক্রমে D এবং E।

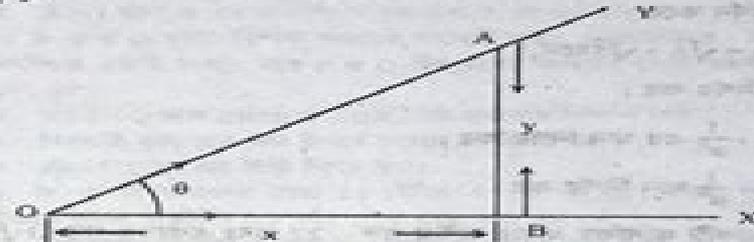ক. $37°$ কোণের পূরক কোণ কত? ২

খ. উদ্দীপকের আলোকে প্রমাণ কর যে, DE ∥ BC এবং 2DE = BC। ৪

গ. প্রমাণ কর যে, AB + BC > 2BE। ৪

৫. ▶ O কেন্দ্রবিশিষ্ট PQR বৃত্তে A একটি বহিঃস্থ বিন্দু। AP এবং AQ বৃত্তের P ও Q বিন্দুতে দুইটি স্পর্শক।

ক. উপরের তথ্যের আলোকে বৃত্তটির চিহ্নিত চিত্র আঁক। ২

খ. প্রমাণ কর যে, AP = AQ। ৪

গ. প্রমাণ কর যে, AO, PQ এর লম্বদ্বিখণ্ডক। ৪

৬. ▶ সমকোণী ত্রিভুজের অতিভুজের এবং সমকোণ সংলগ্ন এক বাহুর দৈর্ঘ্য যথাক্রমে 7 সে.মি. এবং 4 সে.মি.।

ক. ত্রিভুজটির অপর বাহুর দৈর্ঘ্য নির্ণয় কর। ২

খ. একটি বর্গ আঁক, যার পরিসীমা ত্রিভুজের পরিসীমার সমান। (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক) ৪

গ. ত্রিভুজটির পরিবৃত্ত অঙ্কন কর। (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক) ৪

গ-বিভাগ: ত্রিকোণমিতি ও পরিমিতি

৭. ▶

ক. $\cos\theta$ এর মান নির্ণয় কর। ২

খ. উদ্দীপকের আলোকে জ্যামিতিক পদ্ধতিতে দেখাও যে, $\sin^2\theta + \cos^2\theta = 1$। ৪

গ. উদ্দীপকের আলোকে $\left(\dfrac{\sin A}{1 - \cos A} + \dfrac{1 - \cos A}{\sin A}\right)$ এর মান নির্ণয় কর, যখন $x = 3, y = 4$। ৪

৮. ▶ একটি বৃত্তস্থ আয়তক্ষেত্রের দৈর্ঘ্য এবং প্রস্থ যথাক্রমে 12 মি. এবং 5 মি.। আয়তক্ষেত্রের বাহের বৃত্তের মধ্যে অন্তর্নিহিত খালি জায়গায় ঘাস লাগানো আছে।

ক. প্রদত্ত তথ্যের আলোকে চিত্র অঙ্কন কর। ২

খ. বৃত্তাংশের ক্ষেত্রের পরিধি নির্ণয় কর। ৪

গ. প্রতি বর্গমিটারে ঘাস লাগাতে 50 টাকা হিসেবে মোট কত টাকা খরচ হবে? ৪

ঘ-বিভাগ: পরিসংখ্যান

৯. ▶ কোনো বিদ্যালয়ের ১০ম শ্রেণির 25 জন ছাত্রের গণিত বিষয়ের প্রাপ্ত নম্বর নিম্নরূপ :

65, 73, 45, 60, 55, 58, 60, 65, 80, 70, 58, 68, 60, 68, 70, 45, 85, 60, 50, 46, 65, 55, 61, 72, 45

ক. শ্রেণি ব্যাপ্তি 5 ধরে শ্রেণিসংখ্যা নির্ণয় কর। ২

খ. উক্ত সারণী থেকে প্রচুরক নির্ণয় কর। ৪

গ. প্রদত্ত উপাত্তের অজিভ রেখা অঙ্কন কর। ৪

উত্তরমালা

১. ক. $\{4, 5, 6\}$

২. ক. $(x - 6)(x + 1)$; খ. 693.28 টাকা (প্রায়); গ. $12\frac{1}{2}$ বছর

৩. ক. 15 সে.মি., 24 সে.মি., 36 সে.মি.; খ. 1521 বর্গ সে.মি.; গ. 12% হ্রাস

৪. ক. $53°$

৬. ক. 5.74 সে.মি. (প্রায়)

৭. ক. $\frac{x}{5}$; গ. $\frac{10}{3}$

৮. খ. 40.84 মি.; গ. 3636.63 টাকা (প্রায়)

৯. ক. 9টি; খ. 65

J S C Question Math

CH Cherryholmes

J S C Question Math:

This book delves into J S C Question Math. J S C Question Math is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into J S C Question Math, encompassing both the fundamentals and more intricate discussions.

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   - Chapter 2: Essential Elements of J S C Question Math
   - Chapter 3: J S C Question Math in Everyday Life
   - Chapter 4: J S C Question Math in Specific Contexts
   - Chapter 5: Conclusion

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