১৫। $x^2 - \sqrt{5}x + 1 = 0$ হলে $x + \dfrac{1}{x} =$ কত?

(ক) $-2\sqrt{5}$ (খ) $-\sqrt{5}$
(গ) $\sqrt{5}$ (ঘ) $5\sqrt{5}$

১৬। $x + y = 6$ এবং $x - y = 4$ হলে $5xy$ এর মান কত?

(ক) 16   (খ) 24
(গ) 25   (ঘ) 36

১৭। $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{3, 5, 6, 7\}$ হলে A^c সমান কত হবে?

(ক) $\{1, 2, 4\}$ (খ) $\{2, 4, 5\}$
(গ) $\{2, 4, 6\}$ (ঘ) $\{3, 5, 6, 7\}$

১৮। $A = \{3, 4, 5\}$ এবং $B = \{4, 5, 7\}$ হলে—
i. $A \cup B = \{3, 4, 5, 7\}$
ii. $A \cap B = \{4, 5\}$
iii. $A \subset B$

নিচের কোনটি সঠিক?

(ক) i ও ii (খ) i ও iii
(গ) ii ও iii (ঘ) i, ii ও iii

১৯। $x^2 - x - 42$ এর উৎপাদকে বিশ্লেষিত রূপ নিচের কোনটি?

(ক) $(x - 6)(x - 7)$
(খ) $(x - 6)(x + 7)$
(গ) $(x + 6)(x + 7)$
(ঘ) $(x - 7)(x + 6)$

২০। কোনো বিন্দুটি x-অক্ষের উপর অবস্থিত?

(ক) $(0, -4)$ (খ) $(-4, 0)$
(গ) $(0, 3)$ (ঘ) $(3, -1)$

২১। কোন প্রকৃত ভগ্নাংশের লব ও হরের যোগফল 14 এবং বিয়োগফল 4 হলে, ভগ্নাংশটি নিচের কোনটি?

(ক) $\dfrac{5}{9}$ (খ) $\dfrac{9}{5}$
(গ) $\dfrac{3}{11}$ (ঘ) $\dfrac{11}{3}$

২২। $m^2 - 6m - 1 = 0$ হলে $m^2 + \dfrac{1}{m^2} =$ কত?

(ক) 32
(খ) 34
(গ) 36
(ঘ) 38

২৩। একটি সমবৃত্তভূমিক বেলনের ব্যাসার্ধ 4 সে.মি. এবং উচ্চতা 6 সে.মি.। বেলনটির বক্র পৃষ্ঠের ক্ষেত্রফল কত? $(\pi = 3\cdot14)$

(ক) 75·36 বর্গ সে.মি.
(খ) 150·72 বর্গ সে.মি.
(গ) 226·08 বর্গ সে.মি.
(ঘ) 301·44 বর্গ সে.মি.

নিচের চিত্র অনুসারে ২৪ ও ২৫নং প্রশ্নের উত্তর দাও :

$ABCD$ বর্গক্ষেত্রের কর্ণদ্বয় 'O' বিন্দুতে মিলিত হয়েছে এবং $BC = 6$ cm.

২৪। $\angle AOB =$ কত?

(ক) $30°$ (খ) $45°$
(গ) $60°$ (ঘ) $90°$

২৫। AC এর দৈর্ঘ্য কত?

(ক) 6 সে.মি.   (খ) $6\sqrt{2}$ সে.মি.
(গ) $9\sqrt{2}$ সে.মি.   (ঘ) 12 সে.মি.

২৬। যে চতুর্ভুজের দুই জোড়া সন্নিহিত বাহু সমান তাকে কী বলে?

(ক) অসামন্তরিক   (খ) বর্গ
(গ) ঘুড়ি   (ঘ) সামান্তরিক

২৭।

ABC ত্রিভুজের ক্ষেত্রফল কত?

(ক) 24 বর্গ সে.মি.   (খ) 36 বর্গ সে.মি.
(গ) 48 বর্গ সে.মি.   (ঘ) 60 বর্গ সে.মি.

২৮। একটি ত্রিভুজের বাহুগুলোর অনুপাত $x : x : x\sqrt{2}$ হলে, এর বৃহত্তম কোণটির মান কত?

(ক) $80°$ (খ) $85°$
(গ) $90°$ (ঘ) $120°$

২৯। চতুর্ভুজের চারটি কোণের সমষ্টি কত?

(ক) $360°$ (খ) $300°$
(গ) $270°$ (ঘ) $180°$

৩০। একটি ট্রাপিজিয়ামের সমান্তরাল বাহু দুইটির দৈর্ঘ্য যথাক্রমে 13 সে.মি. এবং 8 সে.মি.। সমান্তরাল বাহুদ্বয়ের লম্ব দূরত্ব 4 সে.মি. হলে ট্রাপিজিয়ামটির ক্ষেত্রফল কত বর্গ?

(ক) 42 বর্গ সে.মি.   (খ) 52 বর্গ সে.মি.
(গ) 84 বর্গ সে.মি.   (ঘ) 104 বর্গ সে.মি.

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