

১৫।  $x^2 - \sqrt{5}x + 1 = 0$  হলে  $x + \frac{1}{x} =$  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  $A$ র 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 বিয়োজক 8 হলে, ভগ্নাংশটি নিচের কোনটি?

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

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

- (ক) 32  
(খ) 34  
(গ) 36  
(ঘ) 38

২৩। একটি সমকোণী ত্রিভুজের বাহুসমূহের ব্যাসার্ধ 4 সে.মি. এবং উচ্চতা 6 সে.মি.। ত্রিভুজটির বহু পৃষ্ঠের ক্ষেত্রফল কত? ( $\pi = 3.14$ )

- (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 বর্জাক্ষেত্রের কর্ণদ্বয় 'O' বিন্দুতে মিলিত হয়েছে এবং  $BC = 6$  cm.

২৪।  $\angle AOB =$  কত?

- (ক)  $30^\circ$  (খ)  $45^\circ$   
(গ)  $60^\circ$  (ঘ)  $90^\circ$

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 সম্মিলিত বাহু সমান তাকে কী বলে?

- (ক) অয়ত (খ) বর্গ  
(গ) ঘূর্ণি (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 বাহুদ্বয়ের অনুপাত  $x : x : x\sqrt{2}$  হলে, এর বৃহত্তম কোণটির মান কত?

- (ক)  $80^\circ$  (খ)  $85^\circ$   
(গ)  $90^\circ$  (ঘ)  $120^\circ$

২৯। চতুর্ভুজের চারটি কোণের সমষ্টি কত?

- (ক)  $360^\circ$  (খ)  $300^\circ$   
(গ)  $270^\circ$  (ঘ)  $180^\circ$

৩০। একটি ট্র্যাপিজিয়ামের সমান্তরাল বাহু দুইটির দৈর্ঘ্য যথাক্রমে 13 সে.মি. এবং 8 সে.মি.। সমান্তরাল বাহুদ্বয়ের লম্ব দূরত্ব 4 সে.মি. হলে ট্র্যাপিজিয়ামটির 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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