

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 বহুপৃষ্ঠের 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° (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 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° (খ) 85°
(গ) 90° (ঘ) 120°

২৯। চতুর্ভুজের চারটি কোণের সমষ্টি কত?

- (ক) 360° (খ) 300°
(গ) 270° (ঘ) 180°

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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web dec 2 2021 this chapter first emphasizes the dependence of material processing on mechanical properties then the classification chart of mechanical properties is presented shear deformation is discussed with particular reference to the shear modulus engineering stress and

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web tables of material properties the tables below provide properties of common engineering materials the material property data provided are intended to be representative of the material described the provided values tend toward the conservative end of the spectrum and could be used as baseline design values for preliminary design

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web the data sheet below shows ss 316 material physical properties such as density melting point thermal conductivity thermal expansion magnetic modulus of elasticity specific heat capacity etc 316 magnetic properties type 316 steel is not magnetic but may be weakly magnetic after cold working ss316 heat resistance

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web steel standards astm s steel standards are instrumental in classifying evaluating and specifying the material chemical mechanical and metallurgical properties of the different types of steels which are primarily used in the production of mechanical components industrial parts and construction elements as well as other accessories

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web material terms and definitions definitions related to engineering materials and metals metal melting temperatures melting point of a substance depends on pressure properties of metals thermal metals in general have high electrical conductivity high thermal conductivity and high density