

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 বিয়োগফল 8 হলে, ভগ্নাংশটি নিচের কোনটি?

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

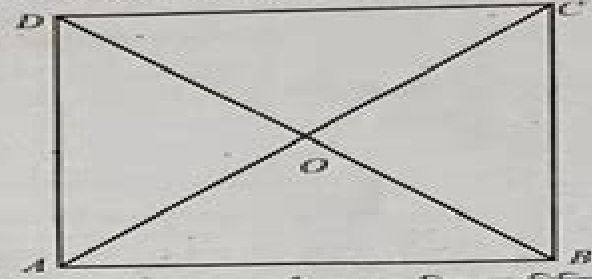
২২।  $m^2 - 6m - 1 = 0$  হলে  $m^2 + \frac{1}{m^2} =$  কত?

- (ক) 32  
(খ) 34  
(গ) 36  
(ঘ) 38

২৩। একটি সমকোণী ত্রিভুজের বাহুদ্বয়ের 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 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.

# Jsc Math Math Question Out

**D Keegan**



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**Mathematical Questions and Solutions, from the "Educational Times"** W. J. C. Miller, 1893 *Engaging in Educational Research* Raqib Chowdhury, Mahbub Sarkar, Foez Mojumder, M Moninoor Roshid, 2018-10-01 This book reflects the paradigm shift now manifesting in Bangladesh's education system by highlighting recent empirical research It shares essential insights by presenting research conducted on diverse aspects of current day education in Bangladesh including policy and governance equity access and participation curriculum and pedagogy assessment and education programs and projects run by NGOs Further it offers a platform for these unique studies to be showcased and disseminated to scholars and researchers from developing and developed countries alike and represents a unique reference resource for the education research community in Bangladesh Asia and all over the world With Foreword from Professor Serajul Islam Choudhury *Refocusing Research in Science, Technology, and Mathematics (STM)* Education Science Teachers Association of Nigeria. Annual Conference, 2004 *Mathematical Modeling for Intelligent Systems* Mukesh Kumar Awasthi, Ravi Tomar, Maanak Gupta, 2022-07-29 Mathematical Modeling for Intelligent Systems Theory Methods and Simulation aims to provide a reference for the applications of mathematical modeling using intelligent

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