

[ উত্তরপত্রের সঠিক উত্তর (✓) চিহ্ন দিহ মাও ]

১. ৭, ১১, ১৫, ১৯ ..... তালিকাটির সংখ্যাগুলোর কোনটি ছোট প্রকাশ করা যায় ?  
 (ক)  $৪ক + ৩$  (খ)  $৩ক + ১$  (গ)  $২ক + ১$  (ঘ)  $৪ক - ৩$
২. ১, ২, ৩, ৪, ৫ ..... তালিকার সংখ্যাগুলোর কোন ধরনের ?  
 (ক) মৌলিক সংখ্যা (খ) ক্রিয়ানোদ্বিক্ত সংখ্যা  
 (গ) পূর্ণবর্গ সংখ্যা (ঘ) অমূলক সংখ্যা
৩. ২ সংখ্যাটি—  
 i. ক্ষুদ্রতম মৌলিক সংখ্যা ii. একমাত্র জোড় মৌলিক সংখ্যা  
 iii. মৌলিক সংখ্যা  
 নিচের কোনটি সঠিক ?  
 (ক) i (খ) i ও ii (গ) ii ও iii (ঘ) i, ii ও iii
৪. একটি ক্রিয়ানোদ্বিক্ত পাতিচৌর্যে ৮ম ও ৯ম পদ ক্রমান্বয়ে ২১ ও ৩৪ হলে ১২ তম পদের মান কত হবে ?  
 (ক) ৭৩ (খ) ৮৯ (গ) ৯৯ (ঘ) ১৪৪
৫. ইন্টারমিডিয়েটস ছাঁকটিতে কি চিহ্ন থাকবে ?  
 (ক) মূল সংখ্যা (খ) মৌলিক সংখ্যা  
 (গ) বর্গ সংখ্যা (ঘ) স্বাভাবিক সংখ্যা
৬. একটি প্রথা টাকায় ৬টি দরে ক্রয় করে টাকায় ৫টি দরে বিক্রয় করলে শতকরা কত লাভ হবে ?  
 (ক) ৮% (খ) ১০% (গ) ১৫% (ঘ) ২০%
৭. একটি পার্ট ১৫% ক্ষতিতে ৮৫০ টাকায় বিক্রয় করা হলো ক্রয়কৃত্য কত ?  
 (ক) ১০০ টাকা (খ) ৮০০ টাকা  
 (গ) ১২৫০ টাকা (ঘ) ১১০০ টাকা
৮. একটি প্রবোধ ক্রেতায় c টাকা মূল্যে r% হলে, বিক্রয়কৃত্য কত ?  
 (ক)  $c(1 - \frac{r}{100})$  টাকা (খ)  $(1 - \frac{r}{100})$  টাকা  
 (গ)  $c(1 + \frac{r}{100})$  টাকা (ঘ)  $(c - \frac{r}{100})$  টাকা
৯. মূলধনের ৭% মূল্যে ২৪০০ টাকা ব্যাংকে জমা রাখল। ৫ বছর পর তার মূল্য কত হবে ?  
 (ক) ৮৮০ টাকা (খ) ৯৭০ টাকা (গ) ৯৯০ টাকা (ঘ) ৯৮০ টাকা
১০.  $P = ১২০০$  টাকা,  $r = ৫\%$  এবং  $n = ২$  হলে  $A =$  কত ?  
 [ দেখানে সংকেতগুলো প্রচলিত অর্থ বহন করে ]  
 (ক) ১০৮০ টাকা (খ) ১৩২০ টাকা  
 (গ) ২৪০০ টাকা (ঘ) ৬০০০ টাকা
১১. মূল্য I, মূলধন P, সময় n, মূল্যের হার r, সরল মূল্যের ক্ষেত্রে মূল্য আসল A :  
 i.  $P + I$  ii.  $P(1 + nr)$  iii.  $p(1 + r)^n$   
 নিচের কোনটি সঠিক ?  
 (ক) i (খ) i ও ii (গ) i ও iii (ঘ) i, ii ও iii
১২.  $(3a + \frac{1}{a})$  এর বর্গ নিচের কোনটি ?  
 (ক)  $9a^2 + \frac{1}{a^2}$  (খ)  $9a^2 + \frac{1}{a^2} + 6$   
 (গ)  $9a^2 - \frac{1}{a^2}$  (ঘ)  $3a^2 + 6a + \frac{1}{a}$

১৩.  $(a + \frac{1}{a}) = 3$  হলে,  $(a - \frac{1}{a})^2$  এর মান কত ?  
 (ক) 5 (খ) 9 (গ) 13 (ঘ) 17
- নিচের তথ্যের আলোকে ১৪ হতে ১৬ নং প্রশ্নের উত্তর দাও :  
 $P = x^2 - 1$  এবং  $Q = x^4 + x^2 + 1$ .
১৪. P এর ঘন নিচের কোনটি ?  
 (ক)  $x^6 + 3x^4 + 3x^2 + 1$  (খ)  $x^6 - 3x^4 + 3x^2 - 1$   
 (গ)  $x^3 - 3x^2 + 3x + 1$  (ঘ)  $x^6 + 3x^4 - 3x^2 - 1$
১৫. P এবং Q এর গুণফল কোনটি ?  
 (ক)  $x^6 - 1$  (খ)  $x^6 + 1$  (গ)  $x^3 - 1$  (ঘ)  $x^3 + 1$
১৬. PQ এর উৎপাদকে বিশ্লেষিত রূপ কোনটি ?  
 (ক)  $(x+1)^2(x^2 - x + 1)$   
 (খ)  $(x-1)^2(x^2 + x + 1)$   
 (গ)  $(x+x+1)^2(x^2 - x + 1)$   
 (ঘ)  $(x+1)(x-1)(x^2 + x + 1)(x^2 - x + 1)$
১৭. নিচের তথ্যগুলো লক্ষ কর :  
 i.  $a^3 + b^3 = (a+b)^3 - 3ab(a+b)$   
 ii.  $a^3 - b^3 = (a-b)^3 - 3ab(a-b)$   
 iii.  $a^3 + b^3 = (a+b)(a^2 - ab + b^2)$   
 নিচের কোনটি সঠিক ?  
 (ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii
১৮.  $x = \sqrt{5}$  হলে,  
 i.  $x + \frac{1}{x} = \frac{6}{\sqrt{5}}$  ii.  $x^2 = 5\sqrt{5}$   
 iii.  $x^3 + \frac{1}{x} = \sqrt{5}$   
 নিচের কোনটি সঠিক ?  
 (ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii
১৯.  $a - b = 10$  এবং  $ab = 12$   
 i.  $a^2 = b^2$  এর মান 1360  
 ii.  $a^3 - b^3 + 6ab$  এর মান 1440  
 iii.  $a^3 - b^3 + 6ab$  এর মান 1284  
 নিচের কোনটি সঠিক ?  
 (ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii
২০.  $x^2 + \frac{1}{x^2} = 10$  হলে,  $(x - \frac{1}{x})$  এর মান কত ?  
 (ক)  $4\sqrt{2}$  (খ)  $3\sqrt{2}$   
 (গ)  $2\sqrt{2}$  (ঘ)  $\sqrt{2}$
২১. নিচের কোন বাস্তবিক উৎপাদক  $(x+4)$  ?  
 (ক)  $x^2 - 4x + 4$  (খ)  $x^2 + 4x + 4$   
 (গ)  $x^2 - 7x + 12$  (ঘ)  $x^2 + 7x + 12$

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**Lingsheng Yao**



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