

[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 পাতিচৌর্যের 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 নগে ক্রয় করে টাকায় ৫টি নগে 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 বহুপদীর 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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