জে এস সি পরীক্ষা-২০১৪

সময় : ৪০ মিনিট | বিষয় : গণিত (বহুনির্বাচনি) | পূর্ণমান—৪০

[ উত্তরপত্রের সঠিক উত্তরে (√) টিক চিহ্ন দাও ]

১. ৭, ১১, ১৫, ১৯ ..... ত্রমিকসংখ্যাগুলোকে কোনটি দ্বারা প্রকাশ করা যায় ?

ক $৪n + ৩$ খ $৩n + ১$ গ $২n + ১$ ঘ $৪n - ৩$

২. ১, ২, ৩, ৫, ৮ ..... ত্রমিকের সংখ্যাগুলো কোন ধরনের ?

ক মৌলিক সংখ্যা খ ফিবোনাক্কি সংখ্যা
গ পূর্ণবর্গ সংখ্যা ঘ অমূলদ 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 ফিবোনাক্কি প্যাটার্নের ৮ম ও ৯ম পদ যথাক্রমে ২১ ও ৩৪ হলে ১২ তম পদের মান কত হবে ?

ক ৭৩ খ ৮৯ গ ৯৯ ঘ ১৪৪

৫. ইরাটোসথিনিস ছাঁকনিতে কি নিয়ে থাকে ?

ক মূলদ সংখ্যা খ মৌলিক সংখ্যা
গ বাস্তব সংখ্যা ঘ স্বাভাবিক সংখ্যা

৬. একটি দ্রব্য ঢাকাতে ৬টি দরে ক্রয় করে টাকায় ৫টি দরে বিক্রয় করলে শতকরা কত লাভ হবে ?

ক ৮% খ ১০% গ ১৫% ঘ ২০%

৭. একটি শার্ট ১৫% ক্ষতিতে ৮৫০ টাকায় বিক্রয় করা হলো ক্রয়মূল্য কত ?

ক ১০০ টাকা খ ৮০০ টাকা
গ ১২২০ টাকা ঘ ১১০০ টাকা

৮. একটি দ্রব্যের ক্রয়মূল্য c টাকা মুনাফা r% হলে, বিক্রয়মূল্য 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. মুনাফিরের ৭% মুনাফায় ২৮০০ টাকা ব্যাংকে জমা রাখল ; ৫ বছর পর তার মুনাফা 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 ?
[ যেখানে সংকেতগুলো প্রচলিত অর্থ বহন করে ]

ক ১০৮০ টাকা খ ১৩২০ টাকা
গ ২৪০০ টাকা ঘ ৬০০০ টাকা

১১. মুনাফা I, মূলধন P, সময় n, মুনাফার হার r, সরল মুনাফার ক্ষেত্রে মুনাফা 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 $3a^2+6a+\frac{1}{3a}$

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 $x^3-3x^4+3x^2+1$ ঘ $x^6+3x^4-3x^2-1$

১৫. P এবং Q এর গসাগু কোনটি ?

ক $x^3-1$ খ $x^2+1$ গ $x^2-1$ ঘ $x^3+1$

১৬. PQ এর উৎপাদককে বিস্তৃতিত 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 ii ঘ i, ii ও iii

১৮. $x=\sqrt{5}$ হলে,

i. $x+\frac{1}{x}=\frac{6}{\sqrt{5}}$. ii. $x^3=5\sqrt{5}$

iii. $x^3+\frac{1}{x^3}=\sqrt{5}$

নিচের কোনটি সঠিক ?

ক i ও ii খ i ও iii গ ii ও ii ঘ i, ii ও iii

১৯. $a-b=10$ এবং $ab=12$

i. $a^3-b^3$ এর মান 1360
ii. $a^3-b^3+6ab$ এর মান 1440
iii. $a^2-b^2+6ab$ এর মান 1284

নিচের কোনটি সঠিক ?

ক i ও ii খ i ও iii গ ii ও ii 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 রাশিটির 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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