গণিত (বহুনির্বাচনি অভীক্ষা)

সময় : ৩০ মিনিট | [৩০টি প্রশ্ন থেকে সবকয়টি প্রশ্নের উত্তর দাও। প্রতিটি প্রশ্নের মান ১] | পূর্ণমান-৩০

১। সবচেয়ে ছোট মৌলিক সংখ্যা কোনটি?
(ক) ১ (খ) ২ (গ) ৩ (ঘ) ৫

২। ০, ৩, ৮, ১৫, ২৪, ... এই প্যাটার্নে ব্যবহৃত রাশি নিচের কোনটি?
(ক) $ক^2 - ১$ (খ) $ক^2 + ১$
(গ) ২ক - ১ (ঘ) ২ক + ১

৩। ১ + ২ + ৩ + ... + ৬০ = কত?
(ক) ১৬২০ (খ) ১৭৩০
(গ) ১৮৩০ (ঘ) ২০৩০

৪। প্রথম ২১টি বিজোড় সংখ্যার সমষ্টি কত?
(ক) ৪৪১ (খ) ৪৫০ (গ) ৫০০ (ঘ) ৫৪০

৫। মূলধন = P, মুনাফা-আসল = A, মুনাফার হার = r%, সময় = n হলে,
i. I = Pnr
ii. A = P + I
iii. $C = P(১ + r)^n - P$
নিচের কোনটি সঠিক?
(ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii

৬। ১২% হার মুনাফায় ৩০০০০ টাকার ২ বছরের চক্রবৃদ্ধি মূলধন কত?
(ক) ৩৭৩৩২ টাকা (খ) ৩৭৬৩২ টাকা
(গ) ৩৭৭৩২ টাকা (ঘ) ৩৮৬৩২ টাকা

৭। ৫০০ টাকার ৫% মুনাফায় ১ বছরের সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত?
(ক) ১২০ টাকা (খ) ৬০ টাকা
(গ) ২০ টাকা (ঘ) পার্থক্য নেই

❑ নিচের উদ্দীপকটি হতে (৮-১০)নং প্রশ্নের উত্তর দাও :
কামাল ব্যাংকে ৪% হার মুনাফায় ৫০০ টাকা জমা রাখলেন।

৮। ৫ বছর পর সরল মুনাফা কত হবে?
(ক) ১০০ টাকা (খ) ১২৫ টাকা
(গ) ১৩০ টাকা (ঘ) ৬০০ টাকা

৯। ৩ বছরান্তে চক্রবৃদ্ধি মূলধন কত হবে?
(ক) ৫৬০.৪০ টাকা (খ) ৫৫০.৫০ টাকা
(গ) ৫৬২.৪৩ টাকা (ঘ) ৬৫০.৫০ টাকা

১০। ৩ বছরান্তে সরল ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত হবে?
(ক) ১০০ টাকা (খ) ৬০ টাকা
(গ) ৬২.৪৩ টাকা (ঘ) ২.৪৩ টাকা

১১। $x^2 + 4y^2$ এর সাথে কত যোগ করলে তা পূর্ণবর্গ হবে?
(ক) 4xy (খ) 2xy
(গ) −2xy (ঘ) xy

১২। x − y = 3 এবং xy = 10 হলে, $(x + y)^2$ এর মান কত?
(ক) 31 (খ) 40 (গ) 43 (ঘ) 49

১৩। নিচের তথ্যগুলি লক্ষ কর :
i. $4ab = (a + b)^2 + (a - b)^2$
ii. $(a + b)^2 = (a - b)^2 + 4ab$
iii. $(x + a)(x + b) = x^2 + (a + b)x + ab$
নিচের কোনটি সঠিক?
(ক) i ও ii (খ) i ও iii
(গ) ii ও iii (ঘ) i, ii ও iii

১৪। (x + 4) (x + 2) কে দুইটি রাশির বর্গের অন্তররূপে প্রকাশ করলে নিচের কোনটি হবে?
(ক) $(x + 4)^2 - 2^2$ (খ) $(x + 2)^2 - 1^2$
(গ) $(x + 3)^2 - 1^2$ (ঘ) $(x + 3)^2 - 3^2$

১৫। a + b = 10, ab = 5 হলে, $(a^2 + b^2)^2$ এর মান কত?
(ক) 90 (খ) 100
(গ) 810 (ঘ) 8100

১৬। $\left(a + \frac{1}{a}\right)^2 = 3$ হলে, $a^3 + \frac{1}{a^3}$ = কত?
(ক) $\sqrt{3}$ (খ) $2\sqrt{3}$ (গ) 3 (ঘ) 0

১৭। 2x + 2y = 8, x − y = 3 হলে, $(x + y)^3 + (x - y)^3$ = কত?
(ক) 81 (খ) 90 (গ) 91 (ঘ) 92

১৮। x − 1, $x^2 - 1$, $x^3 - 1$ তিনটি বীজগাণিতিক রাশি যাদের—
i. ল. সা. গু = (x + 1) (x − 1) (x^2 + x + 1)
ii. গ. সা. গু = (x + 1) (x − 1)
iii. যোগফল = $x^3 + x^2 + x - 3$
নিচের কোনটি সঠিক?
(ক) i ও ii (খ) ii ও iii
(গ) i ও iii (ঘ) i, ii ও iii

১৯। $\frac{x^2 - 7x + 12}{x^2 - 9x + 20}$ এর লঘিষ্ঠ রূপ নিচের কোনটি?
(ক) $\frac{x - 3}{x - 5}$ (খ) $\frac{x - 4}{x - 5}$
(গ) $\frac{x - 3}{x - 4}$ (ঘ) $\frac{x - 5}{x - 3}$

২০। $\frac{x^2 + 1}{(x + 1)^2 - 3x}$ = কত?
(ক) $\frac{x - 4}{x + 4}$ (খ) $\frac{x + 4}{x - 4}$ (গ) $\frac{x - 1}{x + 4}$ (ঘ) x + 1

২১। রম্বসের দুইটি কর্ণের দৈর্ঘ্য 12 সে.মি. ও 14 সে.মি. হলে, ক্ষেত্রফল কত?
(ক) 128 বর্গসে.মি. (খ) 120 বর্গসে.মি.
(গ) 84 বর্গসে.মি. (ঘ) 48 বর্গসে.মি.

২২। ABCD রম্বসের ∠A = 60° হলে, ∠D = কত?
(ক) 60° (খ) 80° (গ) 100° (ঘ) 120°

২৩। একটি ট্রাপিজিয়াম আঁকতে অন্যূন কয়টি উপাত্তের প্রয়োজন?
(ক) 5 (খ) 4 (গ) 3 (ঘ) 2

❑ নিচের তথ্যের আলোকে ২৪ ও ২৫ নং প্রশ্নের উত্তর দাও :

২৪। ∠A = কত?
(ক) 30° (খ) 45° (গ) 60° (ঘ) 90°

২৫। AC = কত একক?
(ক) 50 (খ) $3\sqrt{2}$ (গ) $5\sqrt{2}$ (ঘ) $2\sqrt{5}$

২৬। সমকোণী ত্রিভুজ আঁকা যাবে যদি বাহুগুলির অনুপাত—
i. 3 : 4 : 5
ii. 1 : 1 : $\sqrt{2}$
iii. 5 : 12 : 13 হয়
নিচের কোনটি সঠিক?
(ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii

২৭। একটি সমকোণী ত্রিভুজের লম্বের দৈর্ঘ্য a এবং ভূমির দৈর্ঘ্য b হলে, অতিভুজ কত হবে?
(ক) $a^2 + b^2$ (খ) $\sqrt{a^2 + b^2}$
(গ) $a^2 - b^2$ (ঘ) $\sqrt{a^2 - b^2}$

২৮। 64 বর্গসে.মি. ক্ষেত্রফলবিশিষ্ট বর্গের কর্ণের দৈর্ঘ্য কত সে.মি.?
(ক) 8 (খ) $2\sqrt{8}$ (গ) $8\sqrt{2}$ (ঘ) 128

২৯। 2, 8, 10, 16 এবং x এর গড় 12 হলে, x এর মান কত?
(ক) 24 (খ) 12 (গ) 6 (ঘ) 4

৩০। কোন ধরণের উপাত্তের নির্ভরযোগ্যতা বেশি?
(ক) বিন্যস্ত (খ) অবিন্যস্ত
(গ) মাধ্যমিক (ঘ) প্রাথমিক

উত্তরমালা (মেধা যাচাইয়ের ছক)

১		২		৩		৪		৫		৬		৭		৮		৯		১০		১১		১২		১৩		১৪		১৫	
১৬		১৭		১৮		১৯		২০		২১		২২		২৩		২৪		২৫		২৬		২৭		২৮		২৯		৩০	

উত্তরমালা

১	খ	২	ক	৩	গ	৪	ক	৫	ক	৬	খ	৭	ঘ	৮	ক	৯	গ	১০	ঘ	১১	ক	১২	ঘ	১৩	গ	১৪	গ	১৫	ঘ
১৬	ঘ	১৭	গ	১৮	গ	১৯	ক	২০	ঘ	২১	গ	২২	ঘ	২৩	খ	২৪	খ	২৫	গ	২৬	ঘ	২৭	খ	২৮	গ	২৯	ক	৩০	ঘ

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