গণিত (বহুনির্বাচনি অভীক্ষা)

[১০০টি প্রশ্ন থেকে নব্বইটি প্রশ্নের উত্তর দাও। প্রতিটি প্রশ্নের মান ১]

সময় : ৬০ মিনিট

১। সবচেয়ে ছোট মৌলিক সংখ্যা কোনটি?
ক) ১ খ) ২ গ) ০ ঘ) ৫

২। ০, ৩, ৮, ১৫, ২৪, ... এই প্যাটার্নে বলসূত্র রাশি নিচের কোনটি?
ক) ক² - ১ খ) ক² + ১
গ) ২ক - ১ ঘ) ২ক + ১

৩। ১ + ২ + ৩ + ... + ৬০ = কত?
ক) ১৬২০ খ) ১৭৫০
গ) ১৮৩০ ঘ) ২০০০

৪। প্রথম ২১টি বিজোড় সংখ্যার সমষ্টি কত?
ক) ৪৪১ খ) ৪২০ 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) ii ও iii গ) i ও iii ঘ) i, ii ও iii

৬। ১২% হার মুনাফায় ৫০০০০ টাকার ২ বছরের চক্রবৃদ্ধি মুনাফা কত?
ক) ০৭৬৩২ টাকা খ) ০৭৬৭২ টাকা
গ) ০৭৭০২ টাকা ঘ) ০৬৭০২ 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) ১৬০ টাকা ঘ) ৬০০ টাকা

৯। ৩ বছরান্তে চক্রবৃদ্ধি মুনাফা কত হবে?
ক) ৫৬০.৪০ টাকা খ) ৫৫০.৫০ টাকা
গ) ০৬২.৪০ টাকা ঘ) ৬২০.৫০ টাকা

১০। ৩ বছরান্তে সরল ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত হবে?
ক) ১০০ টাকা খ) ৬০ টাকা
গ) ৬২.৪০ টাকা ঘ) ২.৪০ 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। $\left(a + \dfrac{1}{a}\right)^2 = 3$ হলে, $a^3 + \dfrac{1}{a^3} =$ 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। $\dfrac{x^2 - 7x + 12}{x^2 - 9x + 20}$ এর লঘিষ্ঠ রূপ নিচের কোনটি?
ক) $\dfrac{x - 3}{x - 5}$ খ) $\dfrac{x - 4}{x - 5}$
গ) $\dfrac{x - 5}{x - 4}$ ঘ) $\dfrac{x - 5}{x - 3}$

২০। $\dfrac{x^2 + 1}{(x - 1)^2 - 2x} =$ কত?
ক) $\dfrac{x - 4}{x + 4}$ খ) $\dfrac{x + 4}{x - 4}$ গ) $\dfrac{x - 1}{x + 4}$ 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 $\angle A = 60^\circ$ হলে, $\angle D =$ কত?
ক) 60° খ) 80° গ) 100° ঘ) 120°

২৩। একটি ত্রিভুজ আঁকতে কয়টি উপাত্তের প্রয়োজন?
ক) ৫ খ) ৪ গ) ৩ ঘ) ২

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

২৪। $\angle A =$ কত?
ক) 30° খ) 45° গ) 60° ঘ) 90°

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

২৬। সমকোণী ত্রিভুজের বাহু 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) ii ও iii গ) i 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 ধরনের উপাত্তের নির্ভরযোগ্যতা বেশি?
ক) বিন্যস্ত খ) অবিন্যস্ত
গ) মাধ্যমিক ঘ) প্রাথমিক

উত্তরপত্র (মেগা হ্যান্ডবুকের মত)

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

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