

৩৫তম

বিসিএস প্রিলিমিনারি প্রশ্নপত্র
MCQ-র ব্যাখ্যাসহ সমাধান
(তারিখ : ৬ মার্চ, ২০১৫)

সময় : ২ ঘণ্টা

পূর্বমান : ২০০

(মোট প্রশ্ন ২০০ (বুইশত) টি। প্রতিটি প্রশ্নের চারটি উত্তরের মধ্যে একটি সঠিক উত্তর রয়েছে। প্রার্থী প্রতিটি সঠিক উত্তরের জন্য ১ (এক) নম্বর পাবেন এবং প্রতিটি ভুল উত্তরের জন্য ০.৫০ (শুধু দশমিক পাঁচ শূন্য) নম্বর কর্তন হবে।)

গাণিতিক যুক্তি : ১৫

০১. কলার নাম ২০% কমে যাওয়ায় ১২ টাকার পূর্ব অপেক্ষা ২টি কলার বেশি পাওয়া গেলে বর্তমানে একটি কলার নাম কত টাকা?

- Ⓐ ১.৫০ Ⓑ ৩.০০
Ⓒ ২.৫০ Ⓓ ৪.০০

সমাধান : ২০% কমে বর্তমান মূল্য = ৯৬ টাকা
বর্তমান মূল্য ৯৬ টাকা হলে, পূর্বমূল্য = ১০০ টাকা
" " ১ " " " = $\frac{100}{80} = \frac{10}{8}$
" " ১২ " " " = $\frac{10 \times 12}{8} = 15$
২টি কলার বর্তমান মূল্য = $(15 - 12) = 3$ টাকা

১টি " " " = $\frac{3}{2} = 1.5$ টাকা

০২. ৬০ লিটার রসের রাসে আম ও কমলার অনুপাত ২:১। কমলার রসের পরিমাণ কত লিটার বৃদ্ধি করলে অনুপাতটি ১:২ হবে?

- Ⓐ ৪০ Ⓑ ৬০
Ⓒ ৫০ Ⓓ ৭০

সমাধান : ধরি, ক লিটার কমলার রস বৃদ্ধি করলে ১:২ হবে
আম ও কমলার অনুপাতের সমষ্টি = $2 + 1 = 3$

আমের পরিমাণ = ৬০ এর $\frac{2}{3} = 20 \times 2 = 40$ লিটার

কমলার রসের পরিমাণ = ৬০ এর $\frac{1}{3} = 20 \times 1 = 20$ লিটার

ধ্রুবমতে, $\frac{\text{আম}}{\text{কমলার রস} + \text{ক}} = \frac{2}{3}$

বা, $\frac{80}{20 + \text{ক}} = \frac{2}{3}$

বা, $20 + \text{ক} = 80$ বা, $\text{ক} = 60$ লিটার

০৩. দুইটি সংখ্যার গ.সা.গ ১১ এবং ল.সা.গ ৭৭০০। একটি সংখ্যা ২৭৫ হলে, অপর সংখ্যাটি-

- Ⓐ ৩১৮ Ⓑ ২৮২
Ⓒ ৩০৮ Ⓓ ২৭৬

সমাধান : ধরি, অপর সংখ্যা = x একটি সংখ্যা = ৮২

আমরা জানি, দুইটি সংখ্যার গ-লফল = ল.সা.গ $\times$ গ.সা.গ

বা $২৭৫ \times x = ৭৭০০ \times ১১$

বা $x = \frac{৭৭০০ \times ১১}{২৭৫} = ৩০৮$

০৪. $\frac{3}{x} + \frac{4}{x+1} = 2$ হলে, x এর মান-

- Ⓐ ১ Ⓑ ৩
Ⓒ ২ Ⓓ ৪

সমাধান : উত্তর দেখে একটি সহজে সমাধান করা যাবে।
উত্তরগুলো ক্রমানুসারে শাকালে হবে ১, ২, ৩, ৪।
মধ্যবর্তী মান দ্বারা আগে টেস্ট করতে হয়।

ধরি, $x = 2$ বামপক্ষ $\frac{3}{2} + \frac{4}{2+1} = 1.5 + 1.33 = 2$

অতএব $x = 3$ বামপক্ষ, $\frac{3}{3} + \frac{4}{3+1} = 2$ (সঠিক)

০৫. $x - y = 2$ এবং $xy = 24$ হলে, x এর ধনাত্মক মানটি-

- Ⓐ ৩ Ⓑ ৫
Ⓒ ৪ Ⓓ ৬

সমাধান : এটিও উত্তর দেখে সহজে সমাধান করা যাবে।
উত্তরগুলো ক্রমানুসারে শাকালে হবে ৩, ৪, ৫, ৬।

ধরি, $x = 4$ তাহলে $y = \frac{24}{4} = 6$,

১ম শর্ত $4 - 6 = 2$

অতএব $x = 5$ হলে, $y = \frac{24}{5} = 4.8$ পূর্ণসংখ্যা

একইভাবে $x = 6$ হলে, $y = \frac{24}{6} = 4$

১ম শর্ত, $6 - 4 = 2$ $\therefore x = 6$

০৬. $|x - 3| < 5$ হলে-

- Ⓐ $2 < x < 8$ Ⓑ $-8 < x < -2$
Ⓒ $-2 < x < 8$ Ⓓ $-4 < x < -2$

সমাধান : $(x - 3)$ ধনাত্মক হলে,

$x - 3 < 5 \Rightarrow x < 8$

$(x - 3)$ ঋণাত্মক হলে,

$-(x - 3) < 5$

$\Rightarrow x - 3 > -5 \Rightarrow x > -2$

$\therefore -2 < x < 8$

০৭. $x^{-3} - 0.001 = 0$ হলে, x^2 এর মান-

- Ⓐ ১০০ Ⓑ ১০ Ⓒ $\frac{1}{10}$ Ⓓ $\frac{1}{100}$

সমাধান : $x^{-3} - 0.001 = 0$

$\Rightarrow x^{-3} = 0.001$

$\Rightarrow \frac{1}{x^3} = \frac{1}{1000}$

$\Rightarrow \frac{1}{x^3} = \frac{1}{10^3} \therefore x = 10$

$x^2 = (10)^2 = 100$

০৮. $\log_3\left(\frac{1}{9}\right)$ এর মান-

- Ⓐ ২ Ⓑ ৩
Ⓒ -২ Ⓓ -৩

সমাধান : $\log_3\left(\frac{1}{9}\right) = \log_3 9^{-1} = \log_3 3^{-2} = -2$

উত্তর
পত্র

০১	Ⓒ
০২	Ⓒ
০৩	Ⓒ
০৪	Ⓒ
০৫	Ⓒ
০৬	Ⓒ
০৭	Ⓒ
০৮	Ⓒ

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JR Anderson



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