

৩৫তম

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

সময় : ২ ঘণ্টা

পূর্ণমান : 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

ধ্রুবে,  $\frac{\text{আম}}{\text{কমলার রস} + \text{ক}} = \frac{1}{2}$

বা,  $\frac{৪০}{২০ + \text{ক}} = \frac{1}{2}$

বা,  $20 + \text{ক} = ৪০$  বা,  $\text{ক} = ২০$  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 = ৪২

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

বা  $২৭৫ \times ১১ = ৭৭০০ \times ১১$

বা  $x = ৮৮৭০০ \div ২৭৫ = ৩০৮$

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,  $x = ২$  বামপক্ষ  $\frac{3}{2} + \frac{4}{2+1} = 1.5 + 1.33 = 2$

অতএব  $x = ২$  বামপক্ষ,  $\frac{3}{x} + \frac{4}{x+1} = 2$  (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,  $x = ৪$  তাহলে  $y = \frac{24}{4} = 6$ ,

১ম শর্ত  $4 - 6 = 2$

অতএব  $x = ৫$  হলে,  $y = \frac{24}{5} = 4.8$  পূর্ণসংখ্যা

একইভাবে  $x = ৬$  হলে,  $y = \frac{24}{6} = 4$

১ম শর্ত,  $6 - 4 = 2$   $\therefore x = ৬$

০৬.  $|x - 3| < 5$  হলে-

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

সমাধান :  $(x - 3) < 5$  হলে,

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

$(x - 3)$  ধনাত্মক 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 | Ⓒ |
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