

১৩.  $\frac{1}{x^2+2x-3} = \frac{A}{x-1} + \frac{B}{x-3}$  এবং  $\frac{1}{x^2-6x+8} = \frac{C}{x-2} + \frac{D}{x-4}$  বিশিষ্ট বীজসমীকৃতিক হলি।  
 (ক) প্রথম রাশিটিকে বিকীর্ণ করে ভাগ করে ভগ্নাংশ নির্ণয় কর। ২  
 (খ) ১ম ও ৩য় টির যোগফল হতে ২য়টির বিয়োজন নির্ণয় কর। ৪  
 (গ) রাশি দুইটিকে সমন্বয়ে বিশিষ্ট ভগ্নাংশে প্রকাশ কর। ৪  
 উত্তর: (ক)  $\frac{x-3}{2(x-1)}$  (খ)  $\frac{x^2+7x}{(x+2)(x-1)(x-3)^2}$   
 (গ)  $\frac{2(x-3)^2}{(x+2)(x-1)(x-3)^2} - \frac{4(x-1)(x-3)}{(x-1)(x+2)(x-3)^2} = \frac{3(x-1)(x-2)}{(x-1)(x+2)(x-3)^2}$   
 ১৪.  $\frac{1}{1-x+x^2} = \frac{1}{1+x+x^2} + \frac{2}{x^2-1} + \frac{2x}{1+x^2+x^4}$  চারটি বীজসমীকৃতিক হলি।

(ক) ১ম ও ২য় রাশির বিয়োজন কর কর। ২  
 (খ) ১ম, ২য় ও ৩য় রাশির যোগফল বের কর। ৪  
 (গ) ১ম রাশি থেকে ২য় ও ৪র্থ রাশির সমষ্টি বিয়োজন কর। ৪  
 উত্তর: (ক)  $\frac{2x}{1+x^2+x^4}$  (খ)  $\frac{2x^2+2x^2}{x^2-1}$  (গ) ০

১৫.  $\frac{x^2+3x-4}{x^2-7x+12}$  ভগ্নাংশটিকে  $\frac{x^2-16}{x^2-9}$  দ্বারা ভাগ করলে প্রাপ্ত ভগ্নাংশ A।  
 (ক) প্রথম ভগ্নাংশের লবকে উৎপাদকে বিশ্লেষণ কর। ২  
 (খ) A এর সরলমান কত? ৪  
 (গ) A এর সরলমানকে কত দ্বারা গুন করলে মূলফল  $\frac{x+3}{x-1}$  হবে? ৪  
 উত্তর: (ক)  $(x-1)(x+4)$  (খ)  $\frac{x^2+2x-3}{x^2-8x+16}$  (গ)  $\frac{(x-4)^2}{(x-1)^2}$

### অধ্যায় ৬

১৬. কোনো ভগ্নাংশের লবের সাথে 11 যোগ করলে ভগ্নাংশটির মান 2 হয়। আবার হর হতে 2 বিয়োজন করলে ভগ্নাংশটির মান 1 হয়।

(ক) ভগ্নাংশটি  $\frac{x}{y}$  ধরে সমীকরণ জোড় গঠন করো। ২  
 (খ) সমীকরণ জোড়টি অপসারণ পদ্ধতিতে সমাধান করে  $(x, y)$  নির্ণয় করো। ৪  
 (গ) সমীকরণ জোড়টির লেখ অঙ্কন করে ছেদ বিন্দুর তুল্য ও জোড়টি নির্ণয় করো। ৪  
 উত্তর: (ক)  $\left(\frac{x+11}{y}, \frac{x}{y-2}\right) = (2, 1)$  (খ)  $(x, y) = (7, 9)$

১৭. একটি আয়তাকার বাগানের ঠৈখী প্রস্থের বিপুল অপেক্ষা 5 মিটার বেশি এবং বাগানের পরিধীমা 40 মিটার।

(ক) ঠৈখী x মিটার ও প্রস্থ y মিটার হলে উপরের তথ্যের আলোকে দুটি সমীকরণ গঠন করো। ২  
 (খ) অপসারণ পদ্ধতিতে সমাধান করো। ৪  
 (গ) লেখচিত্রের সাহায্যে সমীকরণ জোড়ের সমাধান করো। ৪  
 উত্তর: (ক)  $x = 2y + 5$ ,  $2(x + y) = 40$  (খ)  $(x, y) = (15, 5)$

১৮. কোনো ভগ্নাংশের লবের সাথে 7 যোগ করলে ভগ্নাংশটির মান 2 হয় এবং হর থেকে 2 বাহন নিলে ভগ্নাংশটির মান 1 হয়। (সিএসসি বোর্ড-২০১৬)

(ক) ভগ্নাংশের লবকে x এবং হরকে y ধরে ভগ্নাংশটিকে সমীকরণ আকারে প্রকাশ কর। ২  
 (খ)  $(x, y)$  এর মান নির্ণয় কর এবং ভগ্নাংশটি নির্ণয় কর। ৪  
 (গ) লেখচিত্র অঙ্কন কর প্রাপ্ত ফলাফলের সত্যতা যাচাই কর। ৪  
 উত্তর: (ক)  $x - 2y = -7$ ,  $x - y = -2$  (খ)  $(x, y) = (3, 5)$

১৯. দুইটি সংখ্যার প্রথমটির তিনগুণের সাথে দ্বিতীয়টির তিনগুণ যোগ করলে 7 হয় এবং প্রথমটির 6 গুণের সাথে দ্বিতীয়টির সাতগুণ যোগ করলে 5 হয়। (সিএসসি বোর্ড-২০১৬)

(ক) চলকের মাধ্যমে সমীকরণ দুইটি গঠন কর। ২  
 (খ) সংখ্যা দুইটি নির্ণয় কর। ৪  
 (গ) সমীকরণদ্বয়কে লেখচিত্রের সাহায্যে সমাধান কর। ৪  
 উত্তর: (ক)  $2x + 3y = 7$ ,  $6x - 7y = 5$  (খ)  $x = 2$  এবং  $y = 1$

২০. দুইটি সংখ্যার প্রথমটির তিনগুণের সাথে দ্বিতীয়টির তিনগুণ যোগ করলে 7 হয় এবং প্রথমটির 6 গুণের সাথে দ্বিতীয়টির সাতগুণ যোগ করলে 5 হয়। (সিএসসি বোর্ড-২০১৬)

(ক) চলকের মাধ্যমে সমীকরণ দুইটি গঠন কর। ২  
 (খ) সংখ্যা দুইটি নির্ণয় কর। ৪  
 (গ) সমীকরণদ্বয়কে লেখচিত্রের সাহায্যে সমাধান কর। ৪  
 উত্তর: (ক)  $2x + 3y = 7$ ,  $6x - 7y = 5$  (খ)  $x = 2$  এবং  $y = 1$

২১. দুইটি সংখ্যার প্রথমটির তিনগুণের সাথে দ্বিতীয়টির তিনগুণ যোগ করলে 7 হয় এবং প্রথমটির 6 গুণের সাথে দ্বিতীয়টির সাতগুণ যোগ করলে 5 হয়। (সিএসসি বোর্ড-২০১৬)

(ক) চলকের মাধ্যমে সমীকরণ দুইটি গঠন কর। ২  
 (খ) সংখ্যা দুইটি নির্ণয় কর। ৪  
 (গ) সমীকরণদ্বয়কে লেখচিত্রের সাহায্যে সমাধান কর। ৪  
 উত্তর: (ক)  $2x + 3y = 7$ ,  $6x - 7y = 5$  (খ)  $x = 2$  এবং  $y = 1$

২২. দুইটি সংখ্যার প্রথমটির তিনগুণের সাথে দ্বিতীয়টির তিনগুণ যোগ করলে 14 হয়। আবার, প্রথমটির চারগুণ থেকে দ্বিতীয়টির তিনগুণ বিয়োগ করলে 2 হয়। (সিএসসি বোর্ড-২০১৬)

(ক) চলকের মাধ্যমে সমীকরণদ্বয় গঠন কর। ২  
 (খ) সমীকরণদ্বয়কে অপসারণ পদ্ধতিতে সমাধান করে সংখ্যার নির্ণয় কর। ৪  
 (গ) সমীকরণদ্বয়কে লেখচিত্রের সাহায্যে সমাধান করে সংখ্যার নির্ণয় কর। ৪  
 উত্তর: (ক)  $3x + 4y = 14$ ,  $4x - 3y = 2$  (খ) 2, 2

২৩. কোনো ভগ্নাংশের লব ও হরের যোগফল 17। আবার হর থেকে 5 বিয়োজন করলে ভগ্নাংশের মান 2 হয়। (সিএসসি বোর্ড-২০১৬)

(ক) উদ্ভীলক থেকে চলকের সাহায্যে দুইটি সমীকরণ গঠন কর। ২  
 (খ) ভগ্নাংশটি নির্ণয় কর। ৪  
 (গ) লেখকের সাহায্যে সমীকরণ দুইটির সমাধান কর। ৪  
 উত্তর: (ক)  $x + y = 17$ ,  $x - 2y = -10$  (খ)  $\frac{8}{3}$

২৪.  $5x - 3y = 9$  এবং  $3x + 2y = 13$  দুইটি সমীকরণ। (সিএসসি বোর্ড-২০১৬)

(ক)  $(5, -1)$  বিন্দুটি কোন সমীকরণের মূল নির্ণয় কর। ২  
 (খ) অপসারণ পদ্ধতিতে সমাধান কর। ৪  
 (গ) লেখচিত্রের সাহায্যে সমাধান কর। ৪  
 উত্তর: (ক) (ii) না সমীকরণের (খ)  $(x, y) = (3, 2)$

২৫.  $2x + y = 8$  এবং  $3x - 2y = 5$  দুইটি সরল সমীকরণ। (সিএসসি বোর্ড-২০১৬)

(ক)  $(4, 0)$  বিন্দুটি কোন সমীকরণের মূল, তা নির্ণয় কর। ২  
 (খ) প্রতিস্থাপন পদ্ধতিতে সমীকরণদ্বয়ের সমাধান কর। ৪  
 (গ) লেখচিত্রের সাহায্যে সমীকরণদ্বয়ের সমাধান কর এবং 'খ' এ প্রাপ্ত মানের সত্যতা যাচাই কর। ৪  
 উত্তর: (ক) (i) না সমীকরণের (খ)  $(x, y) = (3, 2)$

২৬.  $x + 5y = 17$  এবং  $7x - 4y = 2$  দুইটি সরল সমীকরণ। (সিএসসি বোর্ড-২০১৬)

(ক)  $(6, 10)$  বিন্দুটি কোন সমীকরণের মূল তা নির্ণয় কর। ২  
 (খ) প্রতিস্থাপন পদ্ধতিতে সমীকরণ দুইটি সমাধান কর। ৪  
 (গ) সমীকরণ জোড়ের লেখচিত্র অঙ্কন কর। ৪  
 উত্তর: (ক)  $7x - 4y = 2$  (খ)  $(x, y) = (2, 3)$

২৭. দুইটি সংখ্যার প্রথমটির তিনগুণের সাথে দ্বিতীয়টির তিনগুণ যোগ করলে 17 হয়। আবার প্রথমটির সাথে দ্বিতীয়টির তিনগুণ যোগ করলে 19 হয়। (সিএসসি বোর্ড-২০১৬)

(ক) চলকের মাধ্যমে সমীকরণ দুটি গঠন কর। ২  
 (খ) প্রাপ্ত সমীকরণদ্বয়কে প্রতিস্থাপন পদ্ধতিতে সমাধান কর। ৪  
 (গ) সমীকরণদ্বয়কে লেখচিত্রের সাহায্যে সমাধান কর। ৪  
 উত্তর: (ক)  $3x + y = 17$ ,  $x + 3y = 19$

(খ) প্রথম সংখ্যাটি 4 এবং দ্বিতীয় সংখ্যাটি 5

২৮.  $3x - 2y = 5$  এবং  $2x + 3y = 12$  দুটি সমীকরণ। (সিএসসি বোর্ড-২০১৬)

(ক)  $(5, 5)$  বিন্দুটি প্রথম সমীকরণকে সিদ্ধ করে কিনা যাচাই কর। ২  
 (খ) অপসারণ পদ্ধতিতে সমীকরণদ্বয় সমাধান কর। ৪  
 (গ) লেখচিত্রের সাহায্যে সমীকরণদ্বয় সমাধান কর। ৪  
 উত্তর: (খ)  $(x, y) = (3, 2)$

২৯. দুই অকর্ষিত বস্তু কোনো সংখ্যার অক্ষরের সমষ্টির সাথে 12 যোগ করলে যোগফল কক্ষ সংখ্যার অক্ষরের তিনগুণ হয়। কিন্তু সংখ্যাটি থেকে 45 বিয়োজন করলে অক্ষরের স্থান পরিবর্তন করে। (সিএসসি বোর্ড-২০১৬)

(ক) উপরের তথ্যের ভিত্তিতে x ও y এর মাধ্যমে দুইটি সমীকরণ গঠন কর। ২  
 (খ) সংখ্যাটি নির্ণয় কর। ৪  
 (গ) উদ্ভীলক থেকে প্রাপ্ত সমীকরণ দুইটি লেখচিত্রের সাহায্যে সমাধান কর। ৪  
 উত্তর: (ক)  $x - 2y + 12 = 0$ ,  $x - y + 5 = 0$  (খ) 72

৩০. একটি আয়তাকার প্রেক্ষাগৃহের ঠৈখী প্রস্থ অপেক্ষা 10 মিটার বেশি এবং পরিধীমা 120 মিটার। ঠৈখী x মিটার, প্রস্থ y মিটার বিবেচ্য। (সিএসসি বোর্ড-২০১৬)

(ক) উপরের তথ্য থেকে দুইটি সমীকরণ গঠন কর। ২  
 (খ) আয়তাকার প্রেক্ষাগৃহের ঠৈখী ও প্রস্থ নির্ণয় কর। ৪  
 (গ) প্রতিটি 50 সে.মি. দর্শকের পাথর দ্বারা কতটি বৈদ্যুতিক কতটি পাথর লাগবে? ৪  
 উত্তর: (ক)  $x - y = 10$ ,  $x + y = 60$  (খ) 35 মিটার, 25 মিটার (গ) 3500টি

# Jsc Suggestion 2014 Dhaka Board Math

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web aug 15 2023 use this pool safety inspection checklist to proactively check for hazards around swimming pools used by children and adults answerable by yes no n a pool operators can take photos using mobile devices and attach them to the relevant question item as added evidence of hazards found or safety measures in place