

d) Answer any one question:

2 x 1 = 2

i) দেখাও যে  $\frac{x+1}{3} = \frac{y+3}{5} = \frac{z+5}{7}$  এবং  $\frac{x-2}{1} = \frac{y-4}{3} = \frac{z-6}{5}$  সমন্বয়ে গঠিত সমীকরণের সমাধান করে।

ii) যে সমকোণী ত্রিভুজ (2, -3, 4) বিন্দুগুলি এবং অক্ষগুলি থেকে সমীকরণের অংশ দিচ্ছে, তার সমীকরণ নির্ণয় কর।

e) Answer any one question:

2x1=2

i) এলোমেলো ভাবে সাজানো 52 টি তাস থেকে দুটি তাস তুলে নেওয়া হল। তাস দুটির একটি রাজা (king) এবং অন্যটি রানি (queen) হবার সম্ভাবনা নির্ণয় কর।

ii) একটি বিপরীতমুখী বক্র (mean) এবং সমস্ত বিচলিত (S.D) মাত্রায় 20 এবং 6: বক্রগুলির বক্রবর্তিতা অনুসন্ধান কর।

c) Answer the following questions:

3 x 4 = 12

i) যদি  $y = (x^2)^x$  হয়, তবে  $\frac{dy}{dx}$  -এর মান নির্ণয় কর।

OR, যদি  $y = Ae^{2x} + Bxe^{2x}$  হয়, তবে দেখাও যে

$$\frac{d^2y}{dx^2} - 4\frac{dy}{dx} + 4y = 0$$

ii) মান নির্ণয় কর:  $\int \frac{x + \sin x}{1 + \cos x} dx$  OR,  $\int \frac{x^2}{x^4 - 4x^2 + 5} dx$

iii) সমাধান কর:  $x(1 + y^2)dx + y(1 + x^2)dy = 0$

প্রদত্ত  $y = 1$  যখন  $x = 0$

OR,  $\frac{dy}{dx} = \frac{y(xy - x)}{x(xy + x)}$  প্রদত্ত  $y = 1$  যখন  $x = 1$

d) Answer any one question:

4 x 1 = 4

i) যদি ABC ত্রিভুজের ভরকেন্দ্র G হলে দেখাও যে  $\vec{GA} + \vec{GB} + \vec{GC} = \vec{0}$

ii)  $\vec{d} = 2\hat{i} + \hat{j} - 2\hat{k}$  এবং  $\vec{b} = 3\hat{i} - \hat{j} + \hat{k}$  উভয় ভেক্টরের উপর লম্ব একটি ভেক্টর নির্ণয় কর।

e) Answer any one question:

4 x 1 = 4

একটি শব্দের ট্রাক প্রযুক্তিকারক দুই প্রকার শব্দের ট্রাক প্রযুক্তি করে। তার কাছে A ও B এই দুই প্রকার মেশিন আছে। প্রথম প্রকার ট্রাক তৈরি করতে 3 ঘণ্টা A মেশিনের এবং 3 ঘণ্টা B মেশিনের প্রয়োজন। আগের দ্বিতীয় প্রকার ট্রাক তৈরি করতে 3 ঘণ্টা A মেশিনের এবং 2 ঘণ্টা B মেশিনের প্রয়োজন। মেশিন A ও মেশিন B দৈনিক সর্বমোট 18 ঘণ্টা এবং 15 ঘণ্টা কাজ করতে সক্ষম। যদি প্রতিটি প্রথম প্রকার ট্রাক বিক্রয় করে 30 টাকা এবং দ্বিতীয় প্রকার ট্রাক বিক্রয় করে 25 টাকা লাভ হয়, তবে কোন প্রকারের ট্রাক ক-টি করে প্রযুক্তি করে বিক্রয় করলে তার লাভ সর্বমোট হবে, এই সমস্যাটিকে ত্রৈবিক প্রোগ্রামার্সিং সমস্যারূপে প্রকাশ করো।

ii) লেখচিত্রের মাধ্যমে প্রকার ত্রৈবিক প্রোগ্রামার্সিং সমস্যাকে সমাধান কর:

$Z = (-4x + 6y)$  কে সর্বমোট কর, বিস্তারিত শর্তসমূহ

$-x + y \leq 3, -x + 3y \leq 15; x, y \geq 0$

### Group C

3. a) Answer any one question:

1 x 4 = 4

i) যদি A সেটের উপর  $R_1$  এবং  $R_2$  দুটি সমতুল্য সম্পর্ক হয়, তবে দেখাও যে  $R_1 \cap R_2$  সম্পর্কটিও A -এর উপর একটি সমতুল্য সম্পর্ক।

ii) সমাধান কর:  $2 \tan^{-1}(\cos x) = \tan^{-1}(2 \operatorname{cosec} x)$

b) Answer the following questions:

2x4=8

i) যদি A একটি  $2 \times 2$  বর্গ ম্যাট্রিক্স হয় যে  $A \times \begin{pmatrix} 1 & -1 \\ 1 & 2 \end{pmatrix} = \begin{pmatrix} 12 & 0 \\ 0 & 12 \end{pmatrix}$ , তবে A ম্যাট্রিক্সটি নির্ণয় কর। OR, a, b-এর মান নির্ণয় কর যেখানে

$$\left\{ 3 \begin{pmatrix} 2 & 1 & -3 \\ 1 & 4 & 2 \end{pmatrix} - 2 \begin{pmatrix} 1 & -2 & 0 \\ 2 & -1 & 3 \end{pmatrix} \right\} \begin{pmatrix} 2 \\ 0 \\ -1 \end{pmatrix} = \begin{pmatrix} a \\ b \end{pmatrix}$$

ii) Cramer-নিয়মদ্বারা সমাধান কর:  $x + y = 2; y + z = 4; z + x = 6$

$$\text{OR, দেখাও যে: } \begin{vmatrix} b+c & a & a \\ b & c+a & b \\ c & c & a+b \end{vmatrix} = 4abc$$

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