

## BUET Admission Test 2014-2015

(N.B: \* চিহ্ন দেয়ার প্রয়োগ সুবাদে নিষেধ করা হবে।)

## Mathematics (Written)

01.  $\vec{B} = 2\vec{i} - 4\vec{j} + 3\vec{k}$  কের এর সকল নিক বরবর  $\vec{A} = -\vec{i} - \vec{j} + 2\vec{k}$  কের অনুকরণ  $\vec{W}$  নির্ণয় কর। অতঃপর  $\vec{W}$  কের উপর  $\vec{A}$  কের উপর অভিক্ষেপ নির্ণয় কর।

$$\text{Solve: } \vec{B} \text{ বরবর } \vec{A} \text{ এর অভিক্ষেপ} = A \cos \theta = \frac{\vec{A} \cdot \vec{B}}{|\vec{B}|} : A_x = \frac{0}{\sqrt{29}}$$

$$\text{Now, } A_x^2 + A_y^2 = A^2 \Rightarrow A_y = \sqrt{A^2 - A_x^2} = \sqrt{\frac{110}{29}}$$

$$\text{আবার, } \vec{A} \times \vec{B} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ -1 & -1 & 2 \\ 2 & -4 & 3 \end{vmatrix} = \vec{i}(-3+8) - \vec{j}(-3-4) + \vec{k}(4+2) = 5\vec{i} + 7\vec{j} + 6\vec{k}$$

$$\therefore \text{অনুকরণ} = \frac{1}{\sqrt{110}}(5\vec{i} + 7\vec{j} + 6\vec{k}) \quad \therefore \vec{W} = \sqrt{\frac{110}{29}} \times \frac{1}{\sqrt{110}}(5\vec{i} + 7\vec{j} + 6\vec{k}) = \frac{1}{\sqrt{29}}(5\vec{i} + 7\vec{j} + 6\vec{k}) \quad (\text{Ans.})$$

$$\text{অভিক্ষেপ} = A \cos \theta = \frac{\vec{A} \cdot \vec{W}}{|\vec{W}|} = \frac{0}{\sqrt{110}} = 0 \quad (\text{Ans.})$$

02. যদি কোণ  $\theta$  বাজের সরোবর হয়ে;  $A, B \subset R, f: A \rightarrow B$  যেখানে  $f(x) = \frac{3x+2}{7x-3}$  যাবেন্টির কোম্বেন ও যেজ নির্ণয় কর। এবং সেখানে দে ক্ষারণন্তি এক-এক ও সার্বিক ফাংশন হিসেব কর।

$$\text{Solve: Given, } f(x) = \frac{3x+2}{7x-3} \quad x = \frac{3}{7} \text{ যদি, } f(x) = \text{undetermined} \quad \therefore \text{কোম্বেন} = R \setminus \left\{ \frac{2}{7} \right\} \quad (\text{Ans.})$$

$$\text{আবার, } f(x) = y = \frac{3x+2}{7x-3} \Rightarrow 7xy - 3y = 3x + 2 \Rightarrow x(7y - 3) = 3y + 2 \Rightarrow x = \frac{3y+2}{7y-3} \quad \dots \dots \dots (1)$$

$$y = \frac{2}{7} \text{ কল, } x = \text{undetermined} \quad \therefore \text{কোম্বেন} = R \setminus \left\{ \frac{2}{7} \right\} \quad (\text{Ans.})$$

এখন, যেকোন  $x_1, x_2 \in A$  এর জন্য  $f(x_1) = f(x_2)$  হবে যদি ও কেবল যদি,  $\frac{3x_1+2}{7x_1-3} = \frac{3x_2+2}{7x_2-3}$  তা,  $x_1 = x_2$  হব।

$\therefore$  যাবেন্টি এক-এক ও সার্বিক যেহেতু প্রতিটি কোম্বেনের জন্য একটি তিম দেয় আছে।

$$(i) \text{ যদে, } x = \frac{3y+2}{7y-3} \Rightarrow f^{-1}(y) = \frac{3y+2}{7y-3} \Rightarrow f^{-1}(x) = \frac{3x+2}{7x-3} \quad (\text{Ans.})$$

03. যদি  $x^3 - px^2 - qx - r = 0$  সমীকরণের কুলগুণ  $a, b, c$  হয় তবে  $a^2 + b^2 + c^2 < 0$  হয় যাজ নির্ণয় কর।

$$\text{Solve: } x^3 - px^2 - qx - r = 0; a + b + c = p; ab + bc + ca = -q; abc = r$$

$$\text{Now, } a^2 + b^2 + c^2 = (a + b + c)[(a + b + c)^2 - 3(ab + bc + ca)] + 3abc$$

$$= p((p)^2 - 3(-q)) + 3r = p(p^2 + 3q) + 3r \quad (\text{Ans.})$$

04. ফলটি একই অক্ষয়ের বাজের অভিন্নতে দৃষ্টি একই অক্ষয়ের জ্ঞান আছে। অথবা বাজের পুরুষ জ্ঞানের অভিন্নতে একটি ক্ষেত্রে পেশিল, ক্ষতীয় বাজের প্রতি জ্ঞানের একটি ক্ষেত্রে কলম এবং ক্ষতীয় বাজের একটি জ্ঞানের একটি ক্ষেত্রে একটি ক্ষেত্রে একটি বাজ নির্বাচন করা হল ও নির্বাচিত বাজের একটি জ্ঞানের প্রত্যেক পেশিল প্রাপ্ত পেশিল দ্বা একই অক্ষয়ের বাজের অভিন্নতে একই অক্ষয়ের জ্ঞান আছে। অথবা বাজের পুরুষ জ্ঞানের অভিন্নতে একটি ক্ষেত্রে পেশিল, ক্ষতীয় বাজের প্রতি জ্ঞানের একটি ক্ষেত্রে কলম এবং ক্ষতীয় বাজের একটি জ্ঞানের একটি ক্ষেত্রে একটি ক্ষেত্রে একটি বাজ নির্বাচন করা হল ও নির্বাচিত বাজের একটি জ্ঞানের প্রত্যেক পেশিল প্রাপ্ত পেশিল দ্বা একই অক্ষয়ের বাজের অভিন্নতা নির্ণয় কর।

$$\text{Solve: } P = \frac{\frac{1}{2} \times \frac{2}{3}}{\frac{1}{2} \left( \frac{2}{3} + \frac{1}{2} + \frac{1}{3} \right)} = \frac{2}{3} \quad (\text{Ans.})$$

05. \* পাশের ধারাটির  $n$ -তম সন পর্যন্ত যোগফল নির্ণয় কর:  $\frac{14}{1 \cdot 4 \cdot 2 \cdot 5} + \frac{48}{4 \cdot 7 \cdot 5 \cdot 8} + \frac{152}{7 \cdot 10 \cdot 8 \cdot 11} + \dots \dots \dots$

$$\text{Solve: } u_n = \frac{18n^2 - 6}{(9n^2 + 3n - 2)(9n^2 - 3n - 2)} = \frac{(9n^2 + 3n - 2) + (9n^2 - 3n - 2)}{(9n^2 + 3n - 2)(9n^2 - 3n - 2)} = \frac{1}{(9n^2 - 3n - 2)} + \frac{1}{(9n^2 + 3n - 2)}$$

$$= \frac{1}{(3n-1)(3n+2)} + \frac{1}{(3n+1)(3n-2)} \Rightarrow S_n = c - \frac{1}{3(3n-1)} - \frac{1}{3(3n-2)} \Rightarrow \frac{14}{1 \cdot 4 \cdot 2 \cdot 5} = c - \frac{1}{3 \cdot 2} - \frac{1}{3 \cdot 1}$$

$$\therefore c = \frac{17}{20} \therefore S_n = \frac{17}{20} - \frac{1}{3(3n-1)} - \frac{1}{3(3n-2)} \quad (\text{Ans.})$$

# Buet Admission Test Question Paper Bd

**Brendan G. Carr**

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## **Table of Contents Buet Admission Test Question Paper Bd**

1. Understanding the eBook Buet Admission Test Question Paper Bd
  - The Rise of Digital Reading Buet Admission Test Question Paper Bd
  - Advantages of eBooks Over Traditional Books
2. Identifying Buet Admission Test Question Paper Bd
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Buet Admission Test Question Paper Bd
  - User-Friendly Interface
4. Exploring eBook Recommendations from Buet Admission Test Question Paper Bd
  - Personalized Recommendations
  - Buet Admission Test Question Paper Bd User Reviews and Ratings
  - Buet Admission Test Question Paper Bd and Bestseller Lists
5. Accessing Buet Admission Test Question Paper Bd Free and Paid eBooks
  - Buet Admission Test Question Paper Bd Public Domain eBooks
  - Buet Admission Test Question Paper Bd eBook Subscription Services
  - Buet Admission Test Question Paper Bd Budget-Friendly Options
6. Navigating Buet Admission Test Question Paper Bd eBook Formats
  - ePUB, PDF, MOBI, and More
  - Buet Admission Test Question Paper Bd Compatibility with Devices
  - Buet Admission Test Question Paper Bd Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Buet Admission Test Question Paper Bd
  - Highlighting and Note-Taking Buet Admission Test Question Paper Bd
  - Interactive Elements Buet Admission Test Question Paper Bd
8. Staying Engaged with Buet Admission Test Question Paper Bd

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Buet Admission Test Question Paper Bd

9. Balancing eBooks and Physical Books Buet Admission Test Question Paper Bd

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Buet Admission Test Question Paper Bd

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Buet Admission Test Question Paper Bd

- Setting Reading Goals Buet Admission Test Question Paper Bd
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Buet Admission Test Question Paper Bd

- Fact-Checking eBook Content of Buet Admission Test Question Paper Bd
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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