

NTS TESTS WITH EXPLANATORY ANSWERS

NTS TEST NO. 1

◆ Select the correct answer for each question and blacken the corresponding circle in the answer sheet.

- Q1. The area of the circle that is inscribed in a square of area 4, is:
- (A) $\frac{\pi}{2}$ (B) π
(C) $\frac{\pi}{3}$ (D) 4π
- Q2. If the angles of a five-sided polygon are in the ratio of 2 : 3 : 4 : 4 : 5, what is the measure of the smallest angle?
- (A) 30° (B) 60°
(C) 45° (D) 210°
- Q3. In a certain city, x gallons of gasoline are needed per month for each car. How long will y gallons last at this rate given that there are z cars in the town?
- (A) $\frac{x}{zr}$ (B) $\frac{yz}{x}$
(C) $\frac{z}{xy}$ (D) $\frac{y}{zx}$
- Q4. What is fraction of two weeks with 36 minutes?
- (A) $\frac{1}{840}$ (B) $\frac{1}{120}$
(C) $\frac{1}{20160}$ (D) $\frac{1}{560}$
- Q5. Let T = total area of five circles of radius r and let S = total area of three circles of radius u . If $T = S$, then $\frac{r}{u} =$
- (A) $\sqrt{\frac{5}{3}}$ (B) $\frac{3}{5}$
(C) $\frac{\sqrt{3}}{\sqrt{5}}$ (D) 3π
- Q6. A sum of Rs. 7000 is divided among A , B and C in such a way that shares of A and B are in the ratio 2 : 3 and those of B and C are in the ratio 4 : 5. The amount received by C is:
- (A) Rs. 3900 (B) Rs. 3000
(C) Rs. 2800 (D) Rs. 2600
- Q7. If $x : y = 2 : 5$, then $(3x + 4y) : (4x + 5y) =$
- (A) 6 : 20 (B) 9 : 21
(C) 26 : 33 (D) 16 : 20
- Q8. If the postal charges for a package are 62 cents for the first five ounces and 8 cents for each additional ounce, what is the weight of a package for which the charges are \$1.66? (16 ounces = one pound approx):
- (A) 1.125 pounds (B) 1.1 pounds
(C) 1.3 pounds (D) 0.8 pounds

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Table of Contents Nbt Uct Past Papers

1. Understanding the eBook Nbt Uct Past Papers
 - The Rise of Digital Reading Nbt Uct Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Nbt Uct Past Papers
 - 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 Nbt Uct Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nbt Uct Past Papers
 - Personalized Recommendations
 - Nbt Uct Past Papers User Reviews and Ratings
 - Nbt Uct Past Papers and Bestseller Lists
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 - ePub, PDF, MOBI, and More
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 - Nbt Uct Past Papers Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Nbt Uct Past Papers
 - Highlighting and Note-Taking Nbt Uct Past Papers
 - Interactive Elements Nbt Uct Past Papers
- 8. Staying Engaged with Nbt Uct Past Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nbt Uct Past Papers
- 9. Balancing eBooks and Physical Books Nbt Uct Past Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nbt Uct Past Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nbt Uct Past Papers
 - Setting Reading Goals Nbt Uct Past Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nbt Uct Past Papers
 - Fact-Checking eBook Content of Nbt Uct Past Papers
 - 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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