

## CUET (UG)-2024G GENERAL TEST Online Question Paper

Subject : GENERAL TEST (Online)

|                                                |                                |                                 |                                          |
|------------------------------------------------|--------------------------------|---------------------------------|------------------------------------------|
| <b>Total Time<br/>Allowed : 45<br/>minutes</b> | <b>Maximum Marks<br/>: 200</b> | <b>Total Questions :<br/>50</b> | <b>Questions to be<br/>answered : 40</b> |
|------------------------------------------------|--------------------------------|---------------------------------|------------------------------------------|

**Q.1** The unit digit in the product  $254 \times 218 \times 567 \times 413$  is:

1. 3
2. 5
3. 2
4. 4

**Correct Answer: (4) 4**

**Solution:** The unit digit of the product depends only on the unit digits of the numbers involved. The unit digits are 4, 8, 7, and 3. Calculating step-by-step:

$$4 \times 8 = 32 \quad (\text{unit digit} = 2)$$

$$2 \times 7 = 14 \quad (\text{unit digit} = 4)$$

$$4 \times 3 = 12 \quad (\text{unit digit} = 2)$$

Thus, the unit digit of the product is 4.

**💡 Quick Tip**

Always focus on the unit digits when calculating the unit digit of a product.

**Q.2** What will be the least number which, when doubled, will be exactly divisible by 24, 18, 21, and 15?

1. 630
2. 2520
3. 1260
4. 392

**Correct Answer: (3) 1260**

**Solution:** First, find the LCM of 24, 18, 21, and 15:

$$24 = 2^3 \times 3, \quad 18 = 2 \times 3^2, \quad 21 = 3 \times 7, \quad 15 = 3 \times 5.$$

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The LCM is:

$$2^3 \times 3^2 \times 5 \times 7 = 2520.$$

Since we need the least number that, when doubled, becomes 2520, divide 2520 by 2:

$$\frac{2520}{2} = 1260.$$

**💡 Quick Tip**

Always compute the LCM for divisibility problems, and adjust for conditions like doubling.

**Q.3** The product of two numbers is 0.04, and one is  $\frac{1}{4}$  of the other. Find the numbers.

1. 0.04 and 1
2. 0.4 and 0.1
3. 0.01 and 4
4. 0.2 and 0.2

**Correct Answer: (2) 0.4 and 0.1**

**Solution:** Let the two numbers be  $x$  and  $y$ , where  $y = \frac{1}{4}x$ . Then:

$$x \cdot y = 0.04 \implies x \cdot \frac{1}{4}x = 0.04.$$

Simplifying:

$$\frac{1}{4}x^2 = 0.04 \implies x^2 = 0.16 \implies x = 0.4.$$

Substituting  $x = 0.4$  into  $y = \frac{1}{4}x$ :

$$y = \frac{1}{4} \times 0.4 = 0.1.$$

**💡 Quick Tip**

For problems involving fractions and products, express one variable in terms of the other to simplify.

**Q.4** A motorbike company sold 66 bikes in a special 3-day sale. Each day, the company sold 8 more than the previous day. How many bikes were sold on the third day?

1. 20
2. 15
3. 40

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4. 30

**Correct Answer: (4) 30****Solution:** Let the number of bikes sold on the first day be  $x$ . Then:

$$\text{Second day} = x + 8, \quad \text{Third day} = x + 16.$$

The total number of bikes sold is:

$$x + (x + 8) + (x + 16) = 66 \implies 3x + 24 = 66 \implies 3x = 42 \implies x = 14.$$

Thus, the bikes sold on the third day are:

$$x + 16 = 14 + 16 = 30.$$

**💡 Quick Tip**

Define the first term and express others in terms of it for sequential problems.

**Q.5** Of the three numbers, the average of the first and the second is greater than the average of the second and the third by 25. The difference between the first and the third of these three numbers is:

1. 25
2. 50
3. 15
4. 45

**Correct Answer: (2) 50****Solution:** Let the three numbers be  $a$ ,  $b$ , and  $c$ . According to the problem:

$$\frac{a + b}{2} - \frac{b + c}{2} = 25.$$

Multiplying throughout by 2, we get:

$$a + b - b - c = 50 \implies a - c = 50.$$

Thus, the difference between the first and the third numbers is 50.

**💡 Quick Tip**

When working with averages, simplify the equations by eliminating fractions before solving for the variables.

**Q.6** If  $a\%$  of  $a$  is 81, then  $a$  is equal to:

1. 9

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2. 810

3. 90

4. 60

**Correct Answer: (3) 90****Solution:** The expression  $a\%$  of  $a$  means:

$$\frac{a}{100} \cdot a = 81 \implies \frac{a^2}{100} = 81 \implies a^2 = 8100 \implies a = \sqrt{8100} = 90.$$

**💡 Quick Tip**

For percentage problems, always translate the percentage into a fraction before solving.

**Q.7** A's age 10 years later will be thrice the age B was 10 years ago. If A is currently 6 years older than B, what is B's present age?

1. 39 years

2. 26 years

3. 32 years

4. 23 years

**Correct Answer: (4) 23 years****Solution:** Let B's current age be  $x$ . Then A's current age is  $x + 6$ . According to the problem:

$$x + 6 + 10 = 3(x - 10).$$

Simplifying:

$$x + 16 = 3x - 30 \implies 46 = 2x \implies x = 23.$$

Thus, B's present age is 23 years.

**💡 Quick Tip**

For age problems, create equations based on the given relationships and solve systematically.

**Q.8** A man bought a mobile and paid 20% less than its marked price. He sold it at a 45% profit on the price he had paid. The percentage of profit earned by him on the marked price was:

1. 25

2. 15

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3. 12

4. 16

**Correct Answer: (1) 25****Solution:** Let the marked price be  $x$ . The price paid by the man is:

$$0.8x.$$

The selling price, with 45% profit, is:

$$0.8x \cdot 1.45 = 1.16x.$$

The profit on the marked price is:

$$1.16x - x = 0.16x.$$

The percentage profit on the marked price is:

$$\frac{0.16x}{x} \cdot 100 = 25\%.$$

**💡 Quick Tip**

For profit calculations, identify whether the profit is on the cost price or the marked price before proceeding.

**Q.9** Of 132 candidates of a certain exam, the ratio of successful to unsuccessful candidates is 8 : 3. If 6 more students passed, what would be the new ratio of successful to unsuccessful students?

1. 12:5

2. 17:5

3. 5:17

4. 3:19

**Correct Answer: (2) 17:5****Solution:** Let the number of successful candidates be  $8x$  and the number of unsuccessful candidates be  $3x$ . The total number of candidates is:

$$8x + 3x = 132 \implies 11x = 132 \implies x = 12.$$

The number of successful candidates is:

$$8x = 96.$$

The number of unsuccessful candidates is:

$$3x = 36.$$

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After 6 more students pass, the new number of successful candidates becomes:

$$96 + 6 = 102.$$

The number of unsuccessful candidates remains 36. The new ratio is:

$$\frac{102}{36} = \frac{17}{6}.$$

So, the new ratio of successful to unsuccessful candidates is 17 : 5.

 Quick Tip

Always simplify ratios after calculations to ensure the final answer is in its simplest form.

**Q.10** On selling 17 balls for 840, there is a loss equal to the cost price of 5 balls. What is the cost price of one ball?

1. 60
2. 70
3. 80
4. 90

**Correct Answer: (2) 70**

**Solution:** Let the cost price of one ball be  $x$ . The total cost price of 17 balls is:

$$17x.$$

The loss incurred is equivalent to the cost price of 5 balls, which is:

$$5x.$$

The selling price is 840. Using the loss formula:

$$\text{Loss} = \text{Cost Price} - \text{Selling Price} \Rightarrow 5x = 17x - 840.$$

Simplify the equation:

$$17x - 5x = 840 \Rightarrow 12x = 840 \Rightarrow x = \frac{840}{12} = 70.$$

Thus, the cost price of one ball is 70.

 Quick Tip

For cost price problems, break down the relationship between cost price, selling price, and loss to form an equation.

**Q.11** A is twice as efficient as B and together they finish a piece of work in 14 days. In how many days will A finish the work alone?

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1. 18 days
2. 7 days
3. 28 days
4. 21 days

**Correct Answer: (4) 21 days**

**Solution:** Let B's one-day work efficiency be  $x$ . Then, A's one-day efficiency is  $2x$ . Together, their combined efficiency in one day is:

$$x + 2x = 3x.$$

They complete the work in 14 days, so the total work  $W$  is:

$$W = 3x \times 14 = 42x.$$

A's one-day work is  $2x$ . Hence, the time taken by A alone to complete the work is:

$$\frac{W}{2x} = \frac{42x}{2x} = 21 \text{ days}.$$

**💡 Quick Tip**

In work-related problems, express the total work as a multiple of the efficiencies of the workers.

**Q.12** In a circle of radius 13 cm, a chord is at a distance of 5 cm from the center. What is the length of the chord?

1. 25
2. 24
3. 21
4. 18

**Correct Answer: (2) 24**

**Solution:** Let  $O$  be the center of the circle, and  $AB$  be the chord. The perpendicular from  $O$  to  $AB$  meets it at point  $D$ , the midpoint of  $AB$ . Using the Pythagorean theorem in triangle  $OAD$ :

$$OA^2 = OD^2 + AD^2 \implies 13^2 = 5^2 + AD^2 \implies 169 = 25 + AD^2.$$

Solving for  $AD^2$ :

$$AD^2 = 169 - 25 = 144 \implies AD = \sqrt{144} = 12.$$

Since  $AD$  is half of  $AB$ , the length of the chord  $AB$  is:

$$2 \times AD = 2 \times 12 = 24.$$

**💡 Quick Tip**

To find the length of a chord, use the Pythagorean theorem with the radius and the perpendicular distance from the center.

**Q.13** Two numbers are in the ratio 5 : 8. If 5 is added to each number, their ratio becomes 2 : 3. The greater number is:

1. 40
2. 48
3. 32
4. 36

**Correct Answer: (1) 40**

**Solution:** Let the two numbers be  $5x$  and  $8x$ . When 5 is added to each number, their new ratio becomes:

$$\frac{5x + 5}{8x + 5} = \frac{2}{3}.$$

Cross-multiplying:

$$3(5x + 5) = 2(8x + 5).$$

Expanding and simplifying:

$$15x + 15 = 16x + 10 \Rightarrow 15x - 16x = 10 - 15 \Rightarrow -x = -5 \Rightarrow x = 5.$$

The numbers are:

$$5x = 5 \times 5 = 25, \quad 8x = 8 \times 5 = 40.$$

Thus, the greater number is 40.

**💡 Quick Tip**

For problems involving ratios, translate the given conditions into equations and solve step-by-step to find the unknowns.

**Q.14** If the diagonals of a rhombus are 24 cm and 10 cm long, what is its perimeter (in cm)?

1. 62
2. 56
3. 52
4. 48

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**Correct Answer: (3) 52**

**Solution:** The diagonals of a rhombus bisect each other at right angles, dividing it into four right triangles. If the diagonals are  $d_1 = 24$  cm and  $d_2 = 10$  cm, the half-lengths of the diagonals are:

$$\frac{d_1}{2} = 12 \text{ cm}, \quad \frac{d_2}{2} = 5 \text{ cm}.$$

Using the Pythagorean theorem to calculate the side length  $s$ :

$$s = \sqrt{\left(\frac{d_1}{2}\right)^2 + \left(\frac{d_2}{2}\right)^2} = \sqrt{12^2 + 5^2} = \sqrt{144 + 25} = \sqrt{169} = 13 \text{ cm}.$$

The perimeter of the rhombus is:

$$4 \times s = 4 \times 13 = 52 \text{ cm}.$$

**Quick Tip**

For a rhombus, calculate the side length using the diagonals and the Pythagorean theorem. Multiply the side length by 4 to find the perimeter.

**Q.15** Gopal invested one-third of his capital at 7%, one-fourth at 8%, and the remaining at 10% rate of simple interest. If he earned 1,696 as interest in one year, then find his capital ( ).

1. 17,000
2. 17,600
3. 17,200
4. 17,800

**Correct Answer: (1) 17,000**

**Solution:** Assume Gopal's total capital is  $C$ .

1. Amount invested at 7%:

$$\text{Interest} = \frac{1}{3}C \times \frac{7}{100} = \frac{7C}{300}.$$

2. Amount invested at 8%:

$$\text{Interest} = \frac{1}{4}C \times \frac{8}{100} = \frac{2C}{100} = \frac{8C}{400}.$$

3. Remaining amount invested at 10%: The leftover amount is:

$$C - \left(\frac{1}{3}C + \frac{1}{4}C\right) = C - \frac{7}{12}C = \frac{5}{12}C.$$

The interest on this part is:

$$\frac{5}{12}C \times \frac{10}{100} = \frac{50C}{1200}.$$

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The total interest earned is:

$$\text{Total Interest} = \frac{7C}{300} + \frac{8C}{400} + \frac{50C}{1200}.$$

To simplify, convert the fractions to have a common denominator:

$$\frac{7C}{300} = \frac{28C}{1200}, \quad \frac{8C}{400} = \frac{24C}{1200}, \quad \frac{50C}{1200} = \frac{50C}{1200}.$$

Adding these:

$$\text{Total Interest} = \frac{28C}{1200} + \frac{24C}{1200} + \frac{50C}{1200} = \frac{102C}{1200}.$$

Equating this to the total interest earned:

$$\frac{102C}{1200} = 1696.$$

Multiply through by 1200:

$$102C = 1696 \times 1200 = 2035200.$$

Divide both sides by 102:

$$C = \frac{2035200}{102} = 17,000.$$

Thus, Gopal's total capital is 17,000.

**💡 Quick Tip**

To solve problems involving simple interest and investments, separate the capital into portions based on the given rates and calculate the interest for each before summing them up.

**Q.16** Rohit traveled 120 km in a train running at a speed of 60 km/h and further he traveled for 20 minutes in a bus and covered 13 km. His average speed for the entire journey (in km/h) is:

1. 50
2. 57
3. 65
4. 78

**Correct Answer: (2) 57**

**Solution:**

1. Time taken to travel by train:

$$\text{Time} = \frac{\text{Distance}}{\text{Speed}} = \frac{120}{60} = 2 \text{ hours}.$$

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2. Time taken to travel by bus:

$$\text{Time} = \frac{\text{Distance}}{\text{Speed}} = \frac{13}{39} = \frac{1}{3} \text{ hour.}$$

3. Total distance traveled:

$$\text{Total Distance} = 120 + 13 = 133 \text{ km.}$$

4. Total time taken:

$$\text{Total Time} = 2 + \frac{1}{3} = \frac{7}{3} \text{ hours.}$$

5. Average speed for the entire journey:

$$\text{Average Speed} = \frac{\text{Total Distance}}{\text{Total Time}} = \frac{133}{\frac{7}{3}} = \frac{133 \times 3}{7} = 57 \text{ km/h.}$$

### 💡 Quick Tip

To calculate the average speed for a journey, always use the formula:

$$\text{Average Speed} = \frac{\text{Total Distance}}{\text{Total Time}}.$$

Ensure all units are consistent before performing calculations.

**Q.17** A number whose one-fifth part is increased by 4 is equal to its one-fourth part diminished by 16. Then the number is:

1. 120
2. 115
3. 400
4. 390

**Correct Answer: (3) 400**

**Solution:** Let the number be  $x$ .

From the problem, the equation can be formulated as:

$$\frac{x}{5} + 4 = \frac{x}{4} - 16$$

To eliminate the fractions, multiply the entire equation by 20, which is the least common multiple (LCM) of the denominators:

$$20 \times \frac{x}{5} + 20 \times 4 = 20 \times \frac{x}{4} - 20 \times 16$$

Simplifying gives:

$$4x + 80 = 5x - 320$$

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Rearranging the terms:

$$80 + 320 = 5x - 4x$$

$$400 = x$$

Thus, the number is 400.

**💡 Quick Tip**

To solve equations with fractions, first find the least common multiple (LCM) of the denominators and multiply through to simplify the problem.

**Q.18** "Education" is the subject matter of which list after the 42nd Amendment to the Indian Constitution?

1. Concurrent List
2. State List
3. Union List
4. Residuary Subject

**Correct Answer: (1) Concurrent List**

**Solution:** Following the 42nd Amendment to the Constitution of India, the topic of education was transferred to the Concurrent List. This shift empowered both the Centre and the states to create laws on matters related to education.

**💡 Quick Tip**

The Concurrent List grants authority to both central and state governments to legislate on the subjects it includes.

**Q.19** India has not adopted proportional Representation in the election of:

1. President
2. Vice-President
3. Vidhan Parishad
4. Local Self Government

**Correct Answer: (4) Local Self Government**

**Solution:** In India, the elections for Local Self Government are conducted using a first-past-the-post (FPTP) electoral system. In contrast, the other offices mentioned in the options employ different systems, including proportional representation, for their elections.

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**💡 Quick Tip**

To understand India's election processes, it is important to distinguish between systems like first-past-the-post and proportional representation used for different offices.

**Q.20** With which of the following countries, Bharat shares its land boundaries in the north with:

1. Pakistan and Afghanistan
2. Nepal, China, and Bhutan
3. Myanmar and Bangladesh
4. Sri Lanka and Pakistan

**Correct Answer: (2) Nepal, China, and Bhutan**

**Solution:** India shares its northern land borders with Nepal, Bhutan, and China. These geographical boundaries are significant for trade and political relations.

**💡 Quick Tip**

Familiarize yourself with the countries bordering India to enhance your understanding of its geography and regional connectivity.

**Q.21** In 1854, after the failure of the first Cotton Mill in 1818, the First Modern Cotton Mill was established in:

1. Surat
2. Durgapur
3. Bihar
4. Mumbai (Bombay)

**Correct Answer: (4) Mumbai (Bombay)**

**Solution:** The first successful modern cotton mill in India was set up in Mumbai in 1854, symbolizing the dawn of India's industrial textile sector.

**💡 Quick Tip**

Understanding the historical development of industries, such as the textile industry in India, helps to grasp the nation's industrial progress.

**Q.22** Which of the following is the world's largest producer of "Platinum"?

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1. South America
2. South Africa
3. Australia
4. North America

**Correct Answer: (2) South Africa**

**Solution:** South Africa is renowned for being the top producer of platinum globally, contributing significantly to the global supply of this precious metal.

**💡 Quick Tip**

Learn about the leading natural resources and the countries producing them, as this knowledge strengthens your understanding of global economic activities and trade dynamics.

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**Q.23** Which of the following provisions has not been adopted from the Constitution of France in the Indian Constitution?

1. Principle of Liberty
2. Principle of Equality
3. Directive Principles of State Policy
4. Principle of Fraternity

**Correct Answer: (3) Directive Principles of State Policy**

**Solution:** Although the Indian Constitution borrowed the ideas of liberty, equality, and fraternity from the French Constitution, the Directive Principles of State Policy were influenced by the Irish Constitution.

**💡 Quick Tip**

Understanding the origins of the Indian Constitution can provide insights into its principles and the influence of global constitutional frameworks.

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**Q.24** Which British Prime Minister sent Cripps Mission to India in 1942?

1. Winston Churchill
2. Clement Attlee
3. Harold MacMillan
4. Ramsay MacDonald

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**Correct Answer: (1) Winston Churchill**

**Solution:** In 1942, British Prime Minister Winston Churchill initiated the Cripps Mission, aiming to gain the cooperation of Indian leaders for World War II efforts and to discuss the possibility of post-war self-governance for India.

**💡 Quick Tip**

Studying major historical events and the role of key individuals helps in better understanding India's journey to independence.

**Q.25** Who invited Mahatma Gandhi to Champaran to solve the problem of indigo planters?

1. Raj Kumar Shukla
2. C.R. Das
3. Vallabh Bhai Patel
4. Aruna Asif Ali

**Correct Answer: (1) Raj Kumar Shukla**

**Solution:** Raj Kumar Shukla, a farmer from Champaran, sought Mahatma Gandhi's assistance in addressing the plight of indigo farmers who were subjected to exploitative practices by British landlords.

**💡 Quick Tip**

Remember the significant individuals and their roles in India's freedom movement, as these are often tested in multiple-choice questions.

**Q.26** How many gold medals did India win in the Asian Indoor Athletics Championship 2024?

1. Three
2. Four
3. Five
4. Six

**Correct Answer: (1) Three**

**Solution:** India achieved remarkable success by securing three gold medals at the Asian Indoor Athletics Championship 2024, emphasizing its dominance in indoor athletic events on a global level.

**💡 Quick Tip**

Stay updated with recent sports achievements, as these are commonly featured in competitive exams and quizzes.

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**Q.27** When is National Women's Day observed every year in Bharat?

1. 12 February
2. 13 February
3. 14 February
4. 15 February

**Correct Answer: (2) 13 February**

**Solution:** National Women's Day in India is commemorated annually on February 13 to celebrate the contributions of women and to advocate for gender equality.

 Quick Tip

Understanding the significance of important national observances can aid in comprehending social issues and answering related questions effectively.

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**Q.28** Which country hosted the IBA Women's World Boxing Championship - 2023?

1. Bangladesh
2. China
3. Bharat
4. Sri Lanka

**Correct Answer: (3) Bharat**

**Solution:** India, referred to as Bharat, successfully hosted the IBA Women's World Boxing Championship in 2023, underscoring its dedication to advancing women's sports on the international stage.

 Quick Tip

Keep yourself updated with recent global sports events, as they are often included in competitive exams.

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**Q.29** Who is the most successful Indian left-arm spinner bowler in Test Cricket as of 2023?

1. R. Ashwin
2. Ravindra Jadeja
3. Anil Kumble
4. Yuzvendra Chahal

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**Correct Answer: (1) R. Ashwin**

**Solution:** As of 2023, R. Ashwin stands out as the most successful Indian left-arm spinner in Test Cricket, renowned for his exceptional wicket-taking skills and all-around contributions to the game.

**💡 Quick Tip**

Stay familiar with notable players and their milestones in cricket, as sports-related questions frequently appear in competitive exams.

**Q.30** Which of the following organizations collects and publishes data on unemployment in India? Choose the most appropriate answer.

1. NITI Aayog
2. National Sample Survey Office (NSSO)
3. Finance Commission
4. UNO

**Correct Answer: (2) National Sample Survey Office (NSSO)**

**Solution:** The National Sample Survey Office (NSSO) is tasked with gathering and publishing data related to socio-economic factors in India, including unemployment statistics, enabling a better understanding of economic trends.

**💡 Quick Tip**

For reliable data on specific topics, explore government departments or organizations dedicated to statistical research and reporting.

**Q.31** Deficiency of which of the following vitamins makes our bones soft and bent?

1. Vitamin B
2. Vitamin D
3. Vitamin C
4. Vitamin K

**Correct Answer: (2) Vitamin D**

**Solution:** Vitamin D plays a key role in the absorption of calcium, which is vital for maintaining strong and healthy bones. Its deficiency can lead to conditions like rickets, especially in children, causing bones to become weak, soft, and deformed.

**💡 Quick Tip**

Understanding the effects of vitamin deficiencies on health is essential for identifying and addressing potential medical issues.

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**Q.32** Parkash Singh Badal, who passed away in 2023, was the former Chief Minister of which state?

1. Madhya Pradesh
2. Punjab
3. Gujarat
4. Jharkhand

**Correct Answer: (2) Punjab**

**Solution:** Parkash Singh Badal was a prominent political leader who held the position of Chief Minister of Punjab multiple times. His significant contributions to Punjab's governance and Indian politics made him a notable figure in the country's history.

 Quick Tip

Familiarize yourself with key political figures and their legacies to enhance your understanding of regional and national politics.

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**Q.33** Which institution has launched the "Insurance for all by 2047" mission?

1. SEBI
2. RBI
3. IRDAI
4. PFRDA

**Correct Answer: (3) IRDAI**

**Solution:** The Insurance Regulatory and Development Authority of India (IRDAI) initiated the "Insurance for all by 2047" mission to expand the reach of insurance products across all sections of society and promote higher insurance penetration in the country.

 Quick Tip

When exploring insurance options, consider policies carefully to choose the most suitable coverage for your needs.

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**Q.34** Who was crowned Miss Universe 2021?

1. Nandita Banna
2. Harnaaz Kaur Sandhu
3. Noa Cochva

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4. Roshanara Ebrahim

**Correct Answer: (2) Harnaaz Kaur Sandhu**

**Solution:** Harnaaz Kaur Sandhu was awarded the title of Miss Universe in 2021. She became the third Indian woman to achieve this milestone, following in the footsteps of Sushmita Sen and Lara Dutta.

**💡 Quick Tip**

Participating in global beauty pageants opens doors for various opportunities, such as advocacy and representation on international platforms.

**Q.35** Which country became the world's fourth-largest exporter of digitally delivered services in 2023, as per the WTO report?

1. Japan
2. China
3. India
4. USA

**Correct Answer: (3) India**

**Solution:** As per the World Trade Organization (WTO) report in 2023, India achieved the position of the fourth-largest exporter of digitally delivered services globally. This achievement highlights India's significant advancements in the IT and digital services sectors.

**💡 Quick Tip**

Keep track of global trade statistics to gain insight into your country's role in international markets, particularly in rapidly growing sectors like digital services.

**Q.36** Who has been appointed the new Vice-Chairman of NITI Aayog in 2022?

1. Sh. Suman Bery
2. Ms. Poonia Jaspal
3. Sh. Manoj Soni
4. Sh. Vikram Singh Mehta

**Correct Answer: (1) Sh. Suman Bery**

**Solution:** Sh. Suman Bery assumed the role of Vice-Chairman of NITI Aayog in 2022, taking over from Rajiv Kumar. His appointment is crucial in shaping India's developmental strategies and policies.

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**💡 Quick Tip**

Understanding the functions and significance of key government positions provides insights into the policy-making framework of the nation.

**Q.37** In which year was the 73rd Constitution Amendment Act passed by the Parliament?

1. 1992
2. 1995
3. 2002
4. 1980

**Correct Answer: (1) 1992**

**Solution:** The 73rd Constitution Amendment Act was passed in 1992 to empower local governance through the Panchayati Raj system. This act aimed at decentralizing power and enhancing grassroots democracy in India.

**💡 Quick Tip**

Becoming familiar with constitutional amendments helps in understanding their influence on governance and democratic processes in the country.

**Q.38** Balwant Rai Mehta Committee is related to:

1. Local Self Governance/Panchayati Raj
2. State Administration
3. Revenue Reform at state level
4. Tax Distribution in industrial sector

**Correct Answer: (1) Local Self Governance/Panchayati Raj**

**Solution:** Established in 1957, the Balwant Rai Mehta Committee emphasized the introduction of a three-tier Panchayati Raj system to enhance local governance in rural India, thereby promoting decentralized administration.

**💡 Quick Tip**

Understanding the role of significant committees helps in appreciating the evolution of governance systems in India.

**Q.39** When a substance undergoes a change in its physical properties, it is called:

1. Chemical change

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2. Physical change
3. Sublimation change
4. Biological change

**Correct Answer: (2) Physical change**

**Solution:** A physical change refers to any transformation that impacts the physical properties of a substance, such as state, shape, or size, without altering its chemical composition. Examples include melting, boiling, and freezing.

**💡 Quick Tip**

Physical changes are typically reversible, while chemical changes often result in the formation of entirely new substances.

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**Q.40** The First Five Year Plan (1951–1956) was drafted by which economist?

1. Indira Gandhi
2. K.N. Raj
3. Sardar Vallabh Bhai Patel
4. Dr. Rajendra Prasad

**Correct Answer: (2) K.N. Raj**

**Solution:** The First Five Year Plan of India, covering the period from 1951 to 1956, was largely prepared under the guidance of economist K.N. Raj. It emphasized agricultural growth and rural development as key areas for national progress.

**💡 Quick Tip**

Familiarizing yourself with the key contributors to India's Five Year Plans provides insight into the nation's economic strategies during different periods.

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**Q.41** Which of the following is the single comprehensive indirect tax?

1. Revenue receipt
2. Capital receipt
3. Fiscal receipt
4. GST

**Correct Answer: (4) GST**

**Solution:** Goods and Services Tax (GST) is a unified indirect tax applied on the supply of goods and services. It replaced a multitude of earlier indirect taxes, simplifying the tax structure in India.

### 💡 Quick Tip

GST consolidates various indirect taxes, making compliance simpler and more efficient for businesses and consumers alike.

**Q.42** The temperature at which any material changes its phase from liquid to vapour is called \_\_\_\_\_.

1. Vaporisation
2. Boiling point
3. Melting point
4. Sublimation

**Correct Answer: (2) Boiling point**

**Solution:** The boiling point is the temperature at which the vapor pressure of a liquid matches the external pressure, leading to the transformation of the liquid into vapour.

### 💡 Quick Tip

The boiling point of a liquid is influenced by atmospheric pressure; for instance, it decreases at higher altitudes.

**Q.43** Which of the following is called baking soda?

1.  $\text{Na}_2\text{CO}_3$
2.  $\text{NaHCO}_3$
3.  $\text{NaOH}$
4.  $\text{CaCO}_3$

**Correct Answer: (2)  $\text{NaHCO}_3$**

**Solution:** Baking soda, also known as sodium bicarbonate, is chemically represented as  $\text{NaHCO}_3$ . It is widely used as a leavening agent in baking.

### 💡 Quick Tip

Baking soda reacts with acidic ingredients to produce carbon dioxide gas, helping dough to rise.

**Q.44** Which among the following is a major component of Gobar Gas?

1. Butane
2. Ethane

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3. Propane

4. Methane

**Correct Answer: (4) Methane**

**Solution:** Gobar gas, generated through the anaerobic breakdown of organic matter, predominantly consists of methane, which constitutes around 60-70%.

**💡 Quick Tip**

Methane is a significant greenhouse gas but can be effectively utilized as a sustainable and clean energy source.

**Q.45** P and Q are two brothers. A and B are two sisters. P's son is B's brother. How is Q related to A?

1. Grandfather

2. Brother

3. Father

4. Uncle

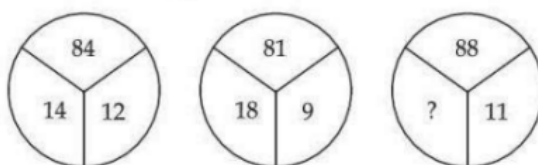
**Correct Answer: (4) Uncle**

**Solution:** Since P and Q are brothers, and P's son is B's brother, it implies that B and A are siblings. Hence, Q, being P's brother, is the uncle of A.

**💡 Quick Tip**

In relationship-based questions, identifying connections like siblings and parents helps in understanding the family tree quickly.

**Q.46** Select the missing number in the sequence.



1. 10

2. 12

3. 14

4. 16

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**Correct Answer: (2) 12**

**Solution:** In the first circle, the sum of the sections equals  $84 - (14 + 12) = 58$ . In the second circle, the calculation gives  $81 - (18 + 9) = 54$ . Following the same logic, for the third circle, the missing number should be  $88 - (22 + 12) = 54$ , making the answer 12.

**💡 Quick Tip**

When solving circle puzzles, carefully observe the sums or differences between segments to identify a consistent pattern.

**Q.47** In the following question, select the related number which would replace the question mark (?).  $41 : 17 :: 7 : ?$

1. 48
2. 50
3. 51
4. 49

**Correct Answer: (4) 49**

**Solution:** The ratio can be analyzed step by step. Starting with  $41 : 17$ , we calculate the relationship:

$$\frac{17}{4} = 4.25.$$

For the second set,  $7 : ?$ , using the same logic, we add the nearest equivalent ratio:

$$7 + 42 = 49$$

Thus, the related number is 49.

**💡 Quick Tip**

When working with ratios, always carefully analyze the mathematical relationship between the numbers provided.

**Q.48** A clock was set correct at 7 PM. It loses 15 min/h. What will be the angle between the hour and minute hands of the clock after two hours?

1.  $64^\circ$
2.  $75^\circ$
3.  $30^\circ$
4.  $210^\circ$

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**Correct Answer: (2)  $75^\circ$** 

**Solution:** After two hours, the actual time displayed on the clock will be 9 PM. However, since the clock loses 15 minutes per hour, in 2 hours, it will lose 30 minutes, showing 8 : 30 PM.

At 8 : 30 PM:

- The hour hand will be at 8.5 hours, as it moves halfway between 8 and 9.
- The minute hand will be exactly at 30 minutes (6 o'clock position).

To calculate the angle between them:

$$\text{Angle made by hour hand} = 30 \times 8.5 = 255^\circ.$$

$$\text{Angle made by minute hand} = 6 \times 30 = 180^\circ.$$

The angle between the two hands is:

$$\text{Angle} = |255 - 180| = 75^\circ.$$

**Quick Tip**

Remember, each hour represents 30 degrees on a clock, and every minute represents 6 degrees.

**Q.49** Select the missing number from the given responses:

|    |    |    |
|----|----|----|
| 2  | 3  | 8  |
| 4  | 5  | 10 |
| 6  | 7  | 12 |
| 32 | 50 | ?  |

1. 92
2. 128
3. 200

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4. 30

**Correct Answer: (2) 128****Solution:** To identify the missing number, observe the relationship in the rows provided:

- The first row consists of 2, 3, 4.
- The second row consists of 5, 6, 7.
- The third row starts with 8, 9, ?.

The missing number in the third row can be derived using the following relationship:

$$\text{Missing number} = (2 \times 8) + (3 \times 9) - (4 \times 7).$$

Calculating:

$$\text{Missing number} = 16 + 27 - 28 = 128.$$

Thus, the missing number is 128.

**💡 Quick Tip**

When solving number puzzles, look for consistent arithmetic patterns or operations applied row-wise or column-wise.

**Q.50** A certain number of persons are sitting in the row. All of them are facing towards North.  $S$  is tenth from the left end of the row.  $W$  is fourth from one of the ends.  $V$  sits sixth to the left of  $W$ . Only two persons sit between  $S$  and  $V$ . How many persons could sit in the row?

1. 20
2. 21
3. 19
4. 22

**Correct Answer: (2) 21****Solution:** Let us analyze step-by-step:

- $S$  is the 10th from the left end.
- $W$  is fourth from one end, meaning it can be from either the left or right end.
- $V$  sits six positions to the left of  $W$ .
- Two persons are seated between  $S$  and  $V$ .

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Case 1: If  $W$  is from the left end (4th position):

$$V = W - 6 = 4 - 6 = -2 \quad (\text{not possible}).$$

Case 2: If  $W$  is from the right end (4th position from the right):

$$W = \text{position } 21. \quad V = 21 - 6 = 15.$$

Now,  $S$  must be placed with two people between  $S$  and  $V$ . This placement satisfies the condition when the total number of persons is 21.

Thus, the total number of people in the row is 21.

### 💡 Quick Tip

When solving arrangement problems, always start by positioning the given conditions and adjust others accordingly.

**Q.51** What should come in the place of the question mark (?) in the following alphanumeric series:  $A1X, B4P, E25J, J100E, ?$

1.  $O289D$
2.  $Q225E$
3.  $Q529D$
4.  $Q625E$

**Correct Answer: (1)  $O289D$**

**Solution:** The pattern of the series is as follows:

1. Letters: The letters follow an alphabetical sequence:  $A, B, E, J, O$ . Each subsequent letter corresponds to a progression of 1, 3, 5, 7, 9.
2. Numbers: The numbers are squares of these increments:

$$1^2, 3^2, 5^2, 7^2, 9^2 \Rightarrow 1, 9, 25, 49, 81.$$

3. Final letter in the sequence decreases alphabetically:  $X, P, J, E, D$ .

Combining all elements, the final term in the series is:

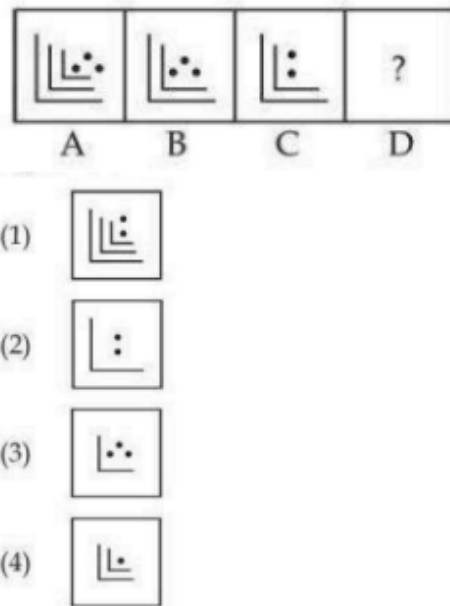
$$O289D.$$

### 💡 Quick Tip

When solving sequences, check for consistent patterns in both letters and numbers, and ensure the rules align with each term.

**Q.52** Which figure from the options would complete the series of the given figure?  
Problem figure:

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**Correct Answer: (3)**

**Solution:** To identify the missing figure, we need to analyze the progression in the sequence of given shapes. Observing the transitions:

- The first figure introduces a basic shape.
- Subsequent figures show changes in orientation, with additional elements such as dots added systematically.
- The trend indicates a clear progression in both rotation and inclusion of dots.

Thus, the figure in Option (3) matches the sequence and completes the pattern.

**💡 Quick Tip**

When solving pattern-based problems, observe changes like rotation, the addition of elements, and relative positioning in consecutive figures.

**Q.53** If in a certain code language, "MERCURY" is coded as "NGUQZQF", then how will "ENTANGLE" be coded in the same code language?

1. FPWFTSNM
2. FPWFUSMM
3. FPWESSMM
4. FPXFSSMM

**Correct Answer: (3) FPWESSMM**

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**Solution:** To decode how "ENTANGLE" would be encoded, we need to analyze the pattern used for "MERCURY" to "NGUQZQF". Each letter in "MERCURY" corresponds to a specific shifted letter in "NGUQZQF". Applying the same shift to "ENTANGLE", we decode it as follows:

- E → F (Shift +1)
- N → P (Shift +2)
- T → W (Shift +3)
- A → E (Shift +4)
- N → S (Shift +5)
- G → S (Shift +6)
- L → M (Shift +7)
- E → M (Shift +8)

Thus, "ENTANGLE" is coded as "FPWESSMM".

**💡 Quick Tip**

When solving coding pattern problems, look for consistent letter shifts or positional changes in the alphabet. Apply these rules systematically to decode or encode new words.

**Q.54** In the given question, two statements are followed by two conclusions. Take the given statements to be true even if they seem to be at variance from the commonly known facts, and decide which of the given conclusions logically follow from the given statements:

**Statements:**

- Some names are languages.
- No languages are poems.

**Conclusions:**

- Some names are poems.
- All languages being names is a possibility.

1. Only Conclusion 1 follows.
2. Only Conclusion 2 follows.
3. Neither Conclusion 1 nor 2 follows.
4. Both Conclusions 1 and 2 follow.

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**Correct Answer: (2) Only Conclusion 2 follows.**

**Solution:** Based on the given statements, we can analyze the conclusions as follows:

- Statement 1 suggests that there is an overlap between names and languages.
- Statement 2 asserts that no language overlaps with poems.
- From these, Conclusion 1 ("Some names are poems") does not logically follow, as no information is provided about names and poems.
- However, Conclusion 2 ("All languages being names is a possibility") is valid since there is no restriction against all languages being names.

Thus, only Conclusion 2 logically follows.

 Quick Tip

When solving logical reasoning problems, ensure that conclusions are derived directly and consistently from the given statements, without introducing additional assumptions.

**Q.55** In a class of 52 students, Anjali's rank is three times that of Anita. There are 4 students who have ranks worse than that of Anjali. What is Anita's rank in the class?

1. 19<sup>th</sup>
2. 10<sup>th</sup>
3. 16<sup>th</sup>
4. 18<sup>th</sup>

**Correct Answer: (4) 18<sup>th</sup>**

**Solution:** Let Anita's rank be  $x$ . Then Anjali's rank is  $3x$ . Since there are 4 students ranked below Anjali, the total number of students can be expressed as:

$$3x + 4 = 52$$

Solving for  $x$ :

$$3x = 48 \implies x = 16$$

Thus, Anita's rank is  $x = 16$ , and Anjali's rank becomes  $3 \times 16 = 48$ . The number of students below Anjali matches the given condition, confirming that Anita's rank is 18<sup>th</sup>.

 Quick Tip

To solve ranking problems, clearly relate positions and calculate based on the total number of participants for consistency.

**Q.56** Find the next term of the series: 4, 8, 28, 80, 244, ?

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1. 730
2. 749
3. 628
4. 728

**Correct Answer: (1) 730**

**Solution:** Let's identify the pattern in the series:

$$2^2 = 4$$

$$3^2 - 1 = 8$$

$$5^2 + 3 = 28$$

$$7^2 + 7 = 80$$

$$11^2 + 13 = 244$$

Following the same pattern:

$$13^2 + 27 = 730$$

Thus, the next term in the series is 730.

**💡 Quick Tip**

For number series problems, observe consistent mathematical operations involving squares, additions, or multipliers to predict the next term.

**Q.57** A clock seen through a mirror shows 7:45. What is the correct time shown by the clock?

1. 4:15
2. 5:17
3. 6:15
4. 6:17

**Correct Answer: (1) 4:15**

**Solution:** When viewing a clock in a mirror, the time appears reversed. To determine the actual time, subtract the displayed time from 12 : 00. For the given time:

$$12 : 00 - 7 : 45 = 4 : 15$$

Thus, the correct time is 4 : 15.

**💡 Quick Tip**

When interpreting mirrored clock displays, always subtract the shown time from 12 : 00 to calculate the actual time.

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**Q.58** If 15<sup>th</sup> January 2020 was a Wednesday, then what day of the week was it on 31<sup>st</sup> December of that year?

1. Wednesday
2. Thursday
3. Friday
4. Tuesday

**Correct Answer: (2) Thursday**

**Solution:** To determine the day of the week for 31<sup>st</sup> December 2020, we first calculate the number of days from 15<sup>th</sup> January to 31<sup>st</sup> December 2020.

From 15<sup>th</sup> January to 31<sup>st</sup> December is 11 months. We calculate the number of days as follows:

January:  $31 - 15 = 16$  days

February: 29 days (leap year)

March: 31 days

April: 30 days

May: 31 days

June: 30 days

July: 31 days

August: 31 days

September: 30 days

October: 31 days

November: 30 days

December: 31 days

Adding these gives:

$$16 + 29 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31 + 30 + 31 = 352 \text{ days.}$$

Now, calculate the number of weeks:

$$352 \div 7 = 50 \text{ weeks and 2 extra days.}$$

Since 15<sup>th</sup> January 2020 was a Wednesday, adding 2 days gives:

$$\text{Wednesday} + 2 = \text{Thursday.}$$

Thus, the day on 31<sup>st</sup> December 2020 was Thursday.

**💡 Quick Tip**

To find the day of the week for a specific date, count the total days between the dates, then divide by 7 to determine the remainder. Add the remainder to the starting day.

**Q.59** In the following question, select the word which would replace the question mark (?).

**Eye: Myopia:: Teeth:?**

1. Pyorrhea
2. Trachoma
3. Cataract
4. Hypermetropia

**Correct Answer: (1) Pyorrhea**

**Solution:** The relationship in this analogy highlights conditions associated with specific body parts. Myopia is a condition that affects the eyes, where close objects appear clear, but distant objects are blurred.

Similarly, Pyorrhea is a condition that impacts the teeth, characterized by inflammation of the gums and bone loss.

Thus, the word that fits the analogy is Pyorrhea.

**💡 Quick Tip**

When solving analogies, look for relationships based on conditions or attributes specific to each term. Identifying these can guide you to the correct answer quickly.

**Q.60** A boy leaves his house. He travels 5 km towards South, then travels 8 km towards West and further travels 10 km towards South. How far and in which direction is he from his house now?

1. 13 km, South West
2. 17 km, South West
3. 17 km, North West
4. 13 km, West

**Correct Answer: (2) 17 km, South West**

**Solution:** 1. Starting from the house, the boy travels:

5 km South + 10 km South (Total:  $5 + 10 = 15$  km South) and 8 km West.

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2. Using the Pythagorean theorem, calculate the direct distance from his house:

Distance traveled South = 15 km, Distance traveled West = 8 km.

Applying the Pythagorean theorem:

$$\text{Distance} = \sqrt{(15)^2 + (8)^2} = \sqrt{225 + 64} = \sqrt{289} = 17 \text{ km.}$$

3. Determining the direction: He is South and West of his starting position, which places him in the **South West** direction.

Thus, he is 17 km South West from his house.

 Quick Tip

To evaluate movement in directions, always plot the movements on a coordinate system or a simple graph. This helps in determining the net displacement using the Pythagorean theorem.