

## Reasoning

### Number Based Analogy

S.No.	Pattern Type	Explanation / Logic	Example
1	<b>Addition Series</b>	Same number is added to get second number.	5 : 8 :: 10 : 13 (Add 3)
2	<b>Subtraction Series</b>	Fixed number is subtracted to reach second number.	12 : 7 :: 10 : 5 (Subtract 5)
3	<b>Multiplication</b>	Second number is a multiple of the first.	4 : 12 :: 5 : 15 ( $\times 3$ )
4	<b>Division</b>	Second number is obtained by dividing the first.	16 : 4 :: 20 : 5 ( $\div 4$ )
5	<b>Square/Cube Relationship</b>	Second number is square or cube of the first (or vice versa).	5 : 25 :: 6 : 36 (Square)
6	<b>Square Root / Cube Root</b>	Reverse of above: second is root of the first.	49 : 7 :: 64 : 8
7	<b>Sum of Digits</b>	Sum of digits of the first = second (or some manipulation).	123 : 6 :: 234 : 9
8	<b>Difference of Numbers</b>	Difference follows a pattern.	11 : 7 :: 9 : 5 (Both $-4$ )
9	<b>Prime Numbers</b>	First or second is a prime; check prime progression.	5 : 11 :: 7 : 13
10	<b>Even-Odd Relationship</b>	Both numbers have even/odd relation.	2 : 4 :: 3 : 6
11	<b>Reverse Digits</b>	Digits are reversed in the second number.	13 : 31 :: 14 : 41
12	<b>Digit Square Sum</b>	Square digits and add.	12 : $1^2 + 2^2 = 5$ :: 23 : $2^2 + 3^2 = 13$
13	<b>Sum <math>\times</math> Multiplier</b>	Sum of digits $\times$ constant = second number.	23 : $(2+3) \times 2 = 10$ :: 41 : $(4+1) \times 2 = 10$
14	<b>Geometric Series</b>	Terms form geometric progression (multiply/divide by ratio).	2 : 4 :: 8 : 16
15	<b>Increasing Square Pattern</b>	Use squares in increasing order.	1 : 4 :: 9 : 16
16	<b>Factorial Based</b>	Involve factorial of digits.	3 : 6 ( $3! = 6$ ) :: 4 : 24 ( $4!$ )
17	<b>Multiple Operations</b>	Apply +, -, $\times$ or $\div$ together or in sequence.	5 : $(5 \times 2) + 1 = 11$ :: 6 : $(6 \times 2) + 1 = 13$
18	<b>Combination of Positions</b>	Use position in number line or place value logic.	1 : A :: 26 : Z (Alphabet-Number)

### Word Based Analogy

S.No.	Analogy Pattern Type	Explanation / Logic	Example
1	<b>Synonym Relationship</b>	First and second words are synonyms; find a similar pair.	Joy : Happiness :: Anger : Rage
2	<b>Antonym Relationship</b>	Words are opposites; second pair must also be opposites.	Generous : Stingy :: Kind : Cruel
3	<b>Cause &amp; Effect</b>	First causes the second; apply same logic to second pair.	Fire : Burn :: Ice : Freeze
4	<b>Tool and Profession</b>	Tool used by a professional; match second pair similarly.	Scalpel : Surgeon :: Brush : Painter
5	<b>Worker and Product</b>	A worker makes or produces the item.	Author : Book :: Poet : Poem
6	<b>Function or Purpose</b>	First is used for second's purpose.	Knife : Cut :: Pen : Write
7	<b>Part and Whole</b>	First is part of the second; maintain same relation.	Wheel : Car :: Page : Book
8	<b>Object and Action</b>	Action performed by or on the object.	Axe : Chop :: Gun : Shoot
9	<b>Quantity/Measurement</b>	One unit used to measure another.	Liter : Liquid :: Kilogram : Mass
10	<b>Degree/Intensity</b>	Second is a higher or lower degree of first.	Warm : Hot :: Cold : Freezing
11	<b>Animal and Sound</b>	Sound made by the animal.	Dog : Bark :: Cat : Meow
12	<b>Animal and Habitat</b>	Natural home or habitat of the animal.	Fish : Water :: Lion : Forest
13	<b>Tool and Object Used On</b>	Tool is used on the second object.	Hammer : Nail :: Comb : Hair
14	<b>Class and Member</b>	First is a category, second is a specific member.	Flower : Rose :: Tree : Oak
15	<b>Male-Female / Gender Relation</b>	Gender counterparts of living beings.	King : Queen :: Bull : Cow

16	<b>Young One / Offspring Relation</b>	Adult and baby relationship.	Dog : Puppy :: Cat : Kitten
17	<b>Profession and Place of Work</b>	The place associated with a profession.	Teacher : School :: Doctor : Hospital
18	<b>Tool and Its Output</b>	What a tool or device produces.	Oven : Bread :: Camera : Photograph
19	<b>Instrument and Measurement</b>	Scientific instruments and what they measure.	Thermometer : Temperature :: Barometer : Pressure
20	<b>Capital and Country</b>	Capital cities and their countries.	Tokyo : Japan :: Paris : France
21	<b>Currency and Country</b>	Currency associated with countries.	Yen : Japan :: Rupee : India
22	<b>Worker and Raw Material</b>	Person and material they work with.	Carpenter : Wood :: Blacksmith : Iron
23	<b>Word-Meaning / Definition</b>	Second word is a definition of the first.	Honest : Truthful :: Brave : Courageous
24	<b>Object and Material Made Of</b>	Material from which something is made.	Bottle : Glass :: Shirt : Cotton
25	<b>Vehicle and Path/Medium</b>	Medium of movement for a vehicle.	Ship : Water :: Airplane : Air

### GK Based Analogy

Pattern Type	Description	Example	Explanation
<b>Country : Capital</b>	Match a country with its capital city.	India : New Delhi :: Japan : ?	Japan : Tokyo
<b>Country : Currency</b>	Pair a country with its official currency.	USA : Dollar :: UK : ?	UK : Pound Sterling
<b>State : Capital</b>	Indian states and their capitals.	Maharashtra : Mumbai :: Tamil Nadu : ?	Tamil Nadu : Chennai
<b>Leader : Country</b>	Famous leaders and their nations.	Mahatma Gandhi : India :: Nelson Mandela : ?	Nelson Mandela : South Africa
<b>Invention : Inventor</b>	Match inventions with their inventors.	Telephone : Graham Bell :: Radio : ?	Radio : Marconi
<b>Organization : Headquarters</b>	Global organizations and their HQs.	WHO : Geneva :: UNO : ?	UNO : New York
<b>Book : Author</b>	Famous books and their authors.	'Gitanjali' : Tagore :: 'Discovery of India' : ?	Nehru
<b>War : Year</b>	Match historical events with the year they happened.	First World War : 1914 :: Second World War : ?	1939
<b>Monument : Place</b>	Famous monuments and their locations.	Taj Mahal : Agra :: Charminar : ?	Hyderabad
<b>Festival : State</b>	Match a festival with its major state.	Bihu : Assam :: Pongal : ?	Tamil Nadu
<b>Day : Date</b>	Match special days with their observed dates.	Independence Day : 15 Aug :: Republic Day : ?	26 Jan
<b>River : Origin</b>	Match rivers with their origins.	Ganga : Gangotri :: Yamuna : ?	Yamunotri
<b>Sports : Trophy</b>	Match sports with their related trophies.	Cricket : Ashes :: Hockey : ?	Sultan Azlan Shah
<b>Award : Field</b>	National/international awards and their fields.	Bharat Ratna : Civilian :: Arjuna Award : ?	Sports
<b>City : Nickname</b>	Cities with their popular nicknames.	Kolkata : City of Joy :: Jaipur : ?	Pink City

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