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General Intelligence and Reasoning

Team Prabhat



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by Team Prabhat

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General Intelligence and Reasoning

1

ANALOGY

Analogy basically means “resemblance of one object to another in certain aspects.” The aim of analogy is to test the candidate’s ability to discover the relationship between the question pair and then to find the required pair of words which is most similar to that relationship.

In this chapter, a question consists of words related to each other based on some logic and it is required to find a word/pair of words analogous to those given in the question

To solve these questions, following two simple steps are to be followed

Step I The candidate is required to identify the relationship between the pair of numbers/letters/words given.

Step II Find out the other pair such that the relationship between the third and the fourth numbers/letters/words is similar to the relationship that exists between the first and second numbers/letters/words.

Chaos : Peace	Affirm : Deny
Gradual : Abrupt	Stale : Fresh
Final : Initial	Create : Destroy
Notice : Ignore	Rejoice : Mourn

Product and Raw Material Relationship

Jaggery : Sugarcane	Book : Paper
Paper : Pulp	Road : Asphalt
Shoes : Leather	Rubber : Latex
Jewellery : Gold	Prism : Glass
Cloth : Fibre	Furniture : Wood
Omelette : Egg	Linen : Flax
Sack : Jute	Wall : Brick

Some Important Relationships

Synonyms Relationship

Dwelling : Abode	Vacant : Empty
Ban : Prohibition	House : Home
Idea : Notion	Contact : Meet
Endless : Eternal	Escape : Abscond
Kind : Benevolent	Enormous : Huge
Synthetic : Artificial	Encumber : Burden
Substitute : Replace	Dissipate : Squander

Part and Whole Relationship

Fan : Blade	Bicycle : Pedal
Cart : Wheel	Pen : Nib
Circle : Arc	Class : Student
House : Room	Car : Steering

Antonyms Relationship

Meet : Avoid	Never : Always
Scarcity : Abundance	Weak : Robust
Deep : Shallow	Advance : Retreat
Cordial : Hostile	Slim : Bulky

Individual and Group Relationship

Sheep : Flock	Goods : Stock
Fish : Shoal	Soldiers : Army
Termites : Colony	Pupils : Class
Riders : Cavalcade	Singer : Chorus
Grapes : Bunch	Sailors : Crew
Bees : Swarm	Players : Team
Robbers : Gang	Flowers : Bouquet

Worker and Tool Relationship

Surgeon : Scalpel	Tailor : Needle
Labourer : Spade	Author : Pen
Blacksmith : Anvil	Soldier : Gun
Farmer : Plough	Sculptor : Chisel
Warrior : Sword	Woodcutter : Axe
Mason : Plumb line	Carpenter : Saw

Worker and Product Relationship

Poet : Poem	Cobbler : Shoes
Producer : Film	Editor : Newspaper
Choreographer : Ballet	Tailor : Clothes
Dramatist : Play	Chef : Food
Farmer : Crop	Sculptor : Bust

Letter Based Analogy

Before discussing such type of relationship in analogy, students are suggested to remember the following things

Forward Letter Positions (Left to Right)

A	B	C	D	E	F	G	H	I	J	K
L	M	N	O	P	Q	R	S	T	U	V
W	X	Y	Z							
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26							

Backward Letter Positions (Right to Left)

A	B	C	D	E	F	G	H	I	J	K
L	M	N	O	P	Q	R	S	T	U	V
W	X	Y	Z							
26	25	24	23	22	21	20	19	18	17	16
15	14	13	12	11	10	9	8	7	6	5
4	3	2	1							

Opposite Letters

A	B	C	D	E	F	G	H	I	J	K	L	M
Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Number Based Relationship

Such relationship is based on arithmetical operations like addition, multiplication, subtraction, divisions of numbers etc. This can be better understood with the formats of the questions as given below

Solved Examples

Example 1: 'Melt' is related to 'Liquid' in the same way as 'Freeze's is related to

- (a) Ice (b) Crystal
(c) Water (d) Cubes

Solution (a): The term 'Melt' is associated with 'Liquid' because after melting the ice, we obtain liquid. Similarly, the state of 'Water' after freezing is 'Ice'.

Example 2: 'Doctor' is related to 'Stethoscope' in the same way as 'Painter' is related to

- (a) Painting (b) Brush
(c) Exhibition (d) Art

Solution (b): 'Stethoscope' is used by a 'Doctor' as a tool to performs his work. Similarly, a 'Painter' uses a 'Brush' as a tool to perform his work.

Example 3: Apple : Fruit :: Potato : ?

- (a) Flower (b) Fruit
(c) Sweet (d) Root

Solution (d): 'Apple' is a 'Fruit' and similarly 'Potato' is a modified 'Root'.

Example 4: Eye : See :: Leg : ?

- (a) Write
(b) Breath
(c) Walk
(d) Hear

Solution (c): 'Eye' is the part of body which is used to 'See' and in the same way 'Leg' is the part of body which is used to 'Walk'.

Directions (5-6) Find the correct number/numbers for from the given alternatives.

Example 5: 4 : 8 :: 16 : ?

- (a) 28 (b) 18
(c) 20 (d) 32

Solution (d): As, $4 \xrightarrow{\times 2} 8$

Similarly, $16 \xrightarrow{\times 2} 32$

$\therefore ? = 32$

Example 6: 386 : 383 :: 517 : ?

- (a) 514
(b) 571
(c) 715
(d) 512

Solution (a): As, $386 - 3 = 383$, Similarly, $517 - 3 = 514$

Exercise

- 'Hate' is related to 'Love' in the same way as 'Create' is related to
(a) Make (b) Renovate
(c) Destroy (d) Build
- 'Bull' is related to 'Cow' in the same way as 'Horse' is related to
(a) Animal (b) Mare
(c) Stable (d) Ment
- 'Sports' is related to 'Logo' in the same way as 'Nation' is related to
(a) Emblem (b) Animal
(c) Ruler (d) Anthem
- 'Data Processing' is related to 'Raw Data' in the same way as 'University' is related to
(a) Teacher (b) Building
(c) Students (d) Principal
- 'Braille' is related to 'Blindness' in the same way as 'Sign language' is related to
(a) Exceptional (b) Touch
(c) Deafness (d) Presentation
- 'Boat' is related to 'Oar' in the same way as 'Bicycle' is related to
(a) Road (b) Wheel
(c) Seat (d) Paddle
- 'Match' is related to 'Victory' in the same way as 'Examination' is related to

- (a) Write (b) Appear
(c) Success (d) Attempt
8. 'Flower' is related to 'Essence' in the same way as 'oven' is related to
(a) Vapour (b) Fire
(c) Heat (d) Steam
9. 'Clock' is related to 'Time' in the same way as 'Metre' is related to
(a) Speed (b) Distance
(c) Wrist (d) Sand
10. 'Museum' is related to 'Curator' in the same way as 'Prison' is related to
(a) Warden (b) Monitor
(c) Manager (d) jailor
11. 'Hour' is related to 'Second' in the same way as 'Tertiary' is related to
(a) Ordinary (b) Secondary
(c) Primary (d) Intermediary
12. 'Fire' is related to 'Ashes' in the same way as 'Explosion' is related to
(a) Sound (b) Debris
(c) Explosive (d) Flame
13. 'Parliament' is related to 'Great Britain' in the same way as 'Congress' is related to
(a) Japan (b) India
(c) USA (d) Netherlands
14. 'Ignite' is to 'Combustion' as 'Trigger' is to
(a) Gun (b) War
(c) Projectile (d) Reaction
15. 'Disease' is related to 'Medicine' in the same way as 'Famine' is related to
(a) Drought (b) River
(c) Waterfall (d) Rainfall
- Directions (16-35): In each of the following questions, there is a certain relationship between two given words on one side of (::) and one word is given on another side (::) while another word is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear. Choose the correct alternative.**
16. King : Throne :: Judge : ?
(a) Lawyer (b) Bench
(c) Court (d) Trial
17. Lion : Roar :: Ass : ?
(a) Bark (b) Trumpet
(c) Howl (d) Bray
18. Lamb : Frisk :: Mouse : ?
(a) Trot (b) Scamper
(c) Gallop (d) Flit
19. Truthfulness : Liar :: Loyalty : ?
(a) Worker (b) Traitor
(c) Diligent (d) Faithful
20. House : Door :: Compound : ?
(a) Gate (b) Fence
(c) Foundation (d) Wall
21. Hongkong : Chine :: Vatican : ?
(a) France (b) Mexico
(c) Canada (d) Rome
22. Giant : Dwarf :: Genius : ?
(a) Wicked (b) Gentle
(c) Idiot (d) Tiny
23. Aryabhata : Mathematician :: Varahamihira : ?
(a) Physician (b) Astronomer
(c) Scientist (d) Architect
24. Sheep : Mutton :: Deer : ?
(a) Veal (b) Meat
(c) Flesh (d) Venison
25. Tea : Leaves :: Coffee : ?
(a) Plant (b) Leaves
(c) Seeds (d) Stimulant
26. Deep : Shallow :: Sharp : ?
(a) Knife (b) Blade
(c) Blunt (d) Ocean
27. Horse : Stable :: Man : ?
(a) Woman (b) Den
(c) Clothes (d) House
28. Peat : Lignite :: Bituminous : ?
(a) Granite (b) Basalt
(c) Anthracite (d) Coke
29. Cougar : South America :: Okapi : ?
(a) India
(b) Central Africa
(c) North America
(d) Pakistan
30. Love : Friend :: Hate : ?
(a) Hatred (b) Brother
(c) Enemy (d) Companion
31. Circle : Arc :: Square : ?
(a) Line (b) Triangle
(c) Sphere (d) Rectangle
32. Brinjal : Vegetable :: Orange : ?
(a) Fruit (b) Stem
(c) Leaf (d) Root
33. Contamination : Food :: Infection : ?
(a) Germs (b) Disease
(c) Body (d) Microbes
34. Pleasure : Sorrow :: Right : ?
(a) Wrong (b) Wonderful
(c) Happy (d) Sure
35. Aluminium : Bauxite :: Iron : ?
(a) Pyrite (b) Magnesite
(c) Pynolosite (d) Haematite

Directions (36-50): In each of the following questions, there is some relationship between the two terms to

- the left of (::) and the same relationship holds between the two terms to its right. Also, in each question, one term either to the right of (::) or to the left of it is missing. This term is given as one of the alternatives given below each question. Find out this terms.**
36. CLOSE : DNRWJ :: OPEN : ?
(a) PRJO (b) RPJB
(c) PRHR (d) RZWR
37. EGIK : LJHF :: SUWY : ?
(a) ZXVT (b) TVXZ
(c) LNPR (d) MOQS
38. ACEG : IKMO :: PRTV : ?
(a) QRUW (b) JLMP
(c) WXAC (d) XZBD
39. acme : mace :: face : ?
(a) cefa (b) cfae
(c) cfea (d) afce
40. BJNT : CIOS :: DHPV : ?
(a) EGQU (b) ELQW
(c) ELPV (d) EIOU
41. ABCDE : FGHIJ :: PQRST : ?
(a) TSRQP (b) UVWXY
(c) KLMNO (d) EDCBA
42. NO : RS :: TU : ?
(a) XY (b) YX
(c) ZY (d) YZ
43. HCM : FAK :: SGD : ?
(a) QEB (b) QIB
(c) ESQ (d) GES
44. BCFE : HILK :: NORQ : ?
(a) TXWU (b) TXUW
(c) TUXW (d) TVWX
45. FILM : ADGH :: MILK : ?
(a) ADGF (b) HDGE
(c) HDGF (d) HEGF
46. ABCD : WXYZ :: EFGH : ?
(a) STUV (b) STOU
(c) STUE (d) TSUV
47. AB : ZY :: CD : ?
(a) VU (b) WX
(c) UV (d) XW
48. ACE : BDF :: MOQ : ?
(a) BMW (b) NQP
(c) NPR (d) BEF
49. SHOE : NCJZ :: REWA : ?
(a) WBJF (b) CITY
(c) CAYR (d) MZRW
(e) None of these
50. FLOWER : REWOLF :: FRUITS : ?
(a) STRUIF (b) STUIRF
(c) STIURF (d) STUIFR
- Directions (51-70): In each of the following questions, there is a certain relationship between two given**