

*LOGICAL REASONING*  
**MODULE 4 – ANALOGY**

**Find the analogous pair:**

1. Diamond : Baseball :: Court : \_\_\_\_\_

- (a) Poker                      (b) Jury                      (c) Grass                      **(d) Squash**

**Solution:**

Baseball is played on a diamond, and squash is played on a court.

2. HJIK : MONP :: PRQS : ?

- (a) UVWX                      **(b) UWVX**                      (c) UXWV                      (d) UWXV

**Solution:**

H	J	I	K		P	R	Q	S
+5↓	+5↓	+5↓	+5↓		+5↓	+5↓	+5↓	+5↓
M	O	N	P	Similarly,	U	W	V	X

Hence, option B is correct.

3. RT : QU :: VX : ?

- (a) WY                      (b) TW                      (c) YW                      **(d) UY**

**Solution:**

R	T		V	X
-1↓	+1↓		-1↓	+1↓
Q	U	Similarly,	U	Y

Hence, option (D) is correct.

4. Air : Ubiquitous :: Fire : ?

- (a) Explosion                      (b) Oxygen                      (c) Water                      **(d) Luminosity**

**Solution:**

Second one is the feature of the first one.

Air is present everywhere, so Ubiquitous is the feature of air.

Similarly fire is always radiant, thus luminosity is the feature of fire.

5. 986 : 53 :: 725 : ?

- (a) 25                      (b) 39                      **(c) 34**                      (d) 35

**Solution:**

The numbers follow the below mentioned pattern-

$$986 = 9 + 8 + (6)^2 = 53$$

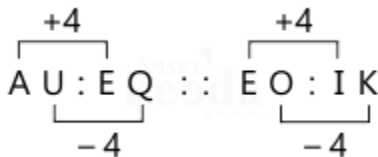
Similarly,

$$725 = 7 + 2 + (5)^2 = 34$$

6. AU : EQ :: EO : ?

- (a) FJ                      **(b) IK**                      (c) LN                      (d) GN

**Solution:**



7. 123 : 4 :: 726 : ?

- (a) 23                      (b) 26                      (c) 14                      **(d) 12**

**Solution:**

$$123 \Rightarrow \frac{12}{3} = 4$$

Similarly,

$$726 \Rightarrow \frac{72}{6} = 12$$

In this question, first two digits of the given number are divided by the third one.

8. MIRROR : 90 : : TERROR : ?

- (a) 90                      **(b) 93**                      (c) 94                      (d) 91

**Solution:**

The relation between the word and the respective number is as follows:  
(Sum of the positions of letters from left end of the alphabet) - 1

M - 13		T - 20
I - 9		E - 5
R - 18		R - 18
R - 18	Similarly,	R - 18
O - 15		O - 15
R - 18		R - 18
<u>          </u>		<u>          </u>
= 91		= 94
$\Rightarrow 91 - 1 = 90$	$\Rightarrow$	$94 - 1 = 93$

9. Connoisseur : Art : : Gourmet : ?

- (a) Food                      (b) Money                      (c) Drink                      (d) Flesh

**Solution:**

First has a good taste for the second.

10. Interview : Job : : Armistice : ?

- (a) War                      **(b) Treaty**                      (c) Amnesty                      (d) Agreement

**Solution:**

First is followed by the second.

11. Dawn : Dusk : : Inauguration : ?

- (a) Invitation                      **(b) Valediction**                      (c) Repetition                      (d) Organization

**Solution:**

One is followed by other.

12. Monotony : Variety : : Crudeness : ?

- (a) **Refinement**                      (b) Raw                      (c) Sobriety                      (d) Simplicity

**Solution:**

The words in each pair are antonyms of each other.

13. Roentgen is related to X-rays in the same way as Becquerel is related to \_\_\_\_\_

- (a) Uranium                      (b) Gamma Rays                      (c) Fission                      **(d) Radioactivity**

**Solution:**

Roentgen discovered X-rays. Similarly, Becquerel discovered radioactivity.

14. MAD : JXA :: RUN : ?

- (a) OSQ                      (b) PRJ                      **(c) ORK**                      (d) UJX

**Solution:**

M A D	R U N
↓ ↓ ↓	↓ ↓ ↓
-3 -3 -3	-3 -3 -3
↓ ↓ ↓	↓ ↓ ↓
J X A	O R K

15. 25 : 175 :: 32 : ?

- (a) 150                      (b) 170                      (c) 162                      **(d) 160**

**Solution:**

$$25 \Rightarrow 25 \times (2 + 5) = 175$$

Similarly,

$$32 \Rightarrow 32 \times (3 + 2) = 160$$

16. 25 : 343 :: 32 : ?

- (a) 125**                      (b) 216                      (c) 512                      (d) 81

**Solution:**

The second number is the cube of the sum of both the digits of the first number.

$$\text{i.e. } 2 + 5 = 7^3 = 343$$

$$\text{Similarly, } 3 + 2 = 5^3 = 125.$$

17. 85 : 55 :: 95 : ?

- (a) 81                      **(b) 65**                      (c) 72                      (d) 25

**Solution:**

The pattern follows as given below :

$$85 = 8^2 - (8 - 5)^2 = 64 - 9 = 55$$

Similarly,  $95 = 9^2 - (9 - 5)^2 = 81 - 16 = 65$

18.  $74 : 65 :: 36 : ?$

- (a) 39                      (b) 54                      **(c) 45**                      (d) 90

**Solution:**

The pattern follows as given below :

$$74 = 7^2 + 4^2 = 49 + 16 = 65$$

Similarly,  $36 = 3^2 + 6^2 = 9 + 36 = 45$

19. Hill : Mountain :: ? : Pain

- (a) Fear                      (b) Headache                      (c) Discomfort                      **(d) Distress**

**Solution:**

Second is a bigger form of the first.

20. Burglar : House :: Pirate : ?

- (a) Sea                      **(b) Ship**                      (c) Sailor                      (d) Crew

**Solution:**

First robs the second.

21. Horse : Gallop :: Duck : ?

- (a) Strut                      **(b) Waddle**                      (c) Prowl                      (d) Trot

**Solution:**

Second is the movement of the first.

22. Time : Waste :: Money : ?

- (a) Spend                      (b) Earn                      (c) Lose                      (d) Squander

**Solution:**

Second is the name given to the art of wasting the first.

23. South : North-west :: West : ?

- (a) South-west                      **(b) North-east**                      (c) East                      (d) South

**Solution:**

The direction indicated by the second word in each pair lies  $135^\circ$  clockwise to that indicated by the first word.

24. Tectonics : Building : : Taxidermy : ?

- (a) Classification                      (b) Conserving                      **(c) Stuffing**                      (d) Collecting

**Solution:**

Tectonics is the science dealing with the art of building. Similarly, taxidermy is the art of stuffing animals.

25. 3 : 10 : : 8 : ?

- (a) 10                      (b) 13                      **(c) 17**                      (d) 14

**Solution:**

Ist term =  $2^2 - 1 = 4 - 1 = 3$

IIInd term =  $3^2 + 1 = 9 + 1 = 10$

IIIrd term =  $3^2 - 1 = 9 - 1 = 8$

IVth term =  $4^2 + 1 = 16 + 1 = 17$

## HOME WORK

26. 17 : 19 : : 47 : ?

- (a) **53**                      (b) 59                      (c) 41                      (d) 34

**Solution:**

Second term is the next prime number after 17. So the next prime number after 47 is 53.

27. NUMBER : UNBMRE : : GHOST : ?

- (a) **HGSOT**                      (b) TSOGH                      (c) OGHST                      (d) SOTGH

**Solution:**

Every pair of letters in the terms are in reverse order as

NU = UN, MB = BM and ER = RE.

28. Crime : Punishment : : Deed : ?

- (a) Pleasure                      (b) Hatred                      (c) Sin                      **(d) Prize**

**Solution:**

Punishment is the result of Crime. In the same way Prize is the result of Deeds

29. TRIAL : JURY : : ?

- (a) **Dispute : Arbiter**                      (b) Poll : Contestant  
(c) Championship : Spectator                      (d) Conference : Speaker

***Solution:***

As 'jury' settles the 'trial' similarly the job of the arbiter is to settle the 'dispute'. Hence the answer is option A.

30. TNGP : 2014716 :: LPDT : ?

(a) 2041612

(b) 1216204

(c) 2116420

**(d) 1216420**

***Solution:***

