Toppersnotes®

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MPPSC

State Civil Services

Madhya Pradesh Public Service Commission

Volume - 8

Reasoning & Comprehension

SIERRA INNOVATIONS

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Analogy refers to a type of question where you are asked to find a relationship between two given words, numbers, or symbols, and then apply that same relationship to another pair to identify the correct answer.

In simpler terms, an analogy involves identifying how two things are related, and then finding another pair that shares a similar relationship.

For example:

Book is to **Reading** as **Fork** is to **Eating**. (Book: Reading :: Fork: ?)

In this case, the relationship is that a book is used for reading, just as a fork is used for eating. Analogies test your ability to recognize patterns, relationships, and logic.

Type 1 – English word Analogy

Under this, considering the relation of Hindi words given in the questions asked, one has to find such a word from the given answer options, whose relation can be established with the given words or with the third word.

(i) **Finding similar words**: - Considering the relation of two words given in the questions asked under this, one has to find such word from the answer options, whose relation is established with the given third word.

Example – 1 Select the related word from the given alternatives.

River : Stream : : Ocean : ?

(A) Current   (B) Pond

(C) Dam   (D) Sea

Ans. (A) Current

Solution : Just as a stream originates from the water of a river, in the same way a current arises from the water of the ocean.

Example – 2 The way Colombo is related to Sri Lanka, in the same way Kathmandu is related to?

(A) Tibet   (B) India

(C) Bhutan   (D) Nepal

Ans. (D) Nepal

Solution :- Just as Colombo is the capital of Sri Lanka, in the same way, Kathmandu is the capital of Nepal.

(ii) Finding the identical pair :- In the questions that come under this, two words are given, which are related to each other in some way. Exactly the same type of relation is also in any one of the options given below.

Example – 3 Select the related word pair from the given alternatives.

Preamble : Constitution : : ? : ?

(A) Word : dictionary   (B) Theme : Magazine

(C) Explanation : Poem   (D) Introduction : Book

Ans. (D)

Solution:- Just as there is a preamble of the constitution, in the same way there is a introduction of the book.

(iii) Choosing similar words and special classes for similar words

Some words are given in the questions coming under it. You have to choose a word from the given alternatives which is exactly same as the word given in the beginning and find the word which shows the particularity among the words given in the question.

Example – 4 What is the same as - Earthquake, cyclone, volcanic eruption

(A) Global heat   (B) Flood

(C) Accidents   (D) Nuclear explosion

Ans. (B) Flood

Solution: Just as earthquakes, cyclones and volcanic eruptions are natural disasters. Similarly, floods are also a natural disaster.

Example – 5 Given below three words, which have some common features, select the correct option.

Snake, lizard, crocodile

(A) Reptiles   (B) Mammals

(C) Omnivores   (D) Deer

Ans. (A)

Solution: Snake, Lizard and Crocodile are all three reptiles.

Example 6: Find the alternative which has the same relation as in all the three words given below.

King, Queen, Palace

(A) Pigeon, bird, dispensary

(B) Goat, goat, fort

(C) Bumblebee, spider, water

(D) Lion, lioness, cave

Ans. (D)

Solution:- Just as both the king and queen reside together in the palace, in the same way both the lion and the lioness reside together in the cave.

(iv) Double Symmetry : - Under this, two words are given on the left and right of the symbol (::) in the question. Each word is missing in both the words.

The missing word has to be found from the options given below.

Example - 7 In the following question, find out the missing word from the alternative given below

A : Ugly : : Peace : B

(A) A - Beautiful, B - War

(B) A – Friendship, B – Noise

(C) A – Honesty, B – Treaty

(D) A - Number, B – Strike

Ans. (A)

Solution:- Just as, beautiful and ugly are opposite words of each other. Similarly, peace and war are also opposite words to each other.

Type - 2 English Alphabets Analogy :-

The questions under this are based on letters or letter groups of the English alphabet. After knowing the relationship of the first two letter-groups given in these questions, on this basis, the correct answer for the third letter-group has to be found from the options.

Vowels and Consonants of English Letters :-

Vowel Letters – A, E, I, O, U

Consonant Letter – B, C, D, F, G, H, J, K, L, M, N, P, Q, R, S, T, V, W, X, Y, Z

English alphabets their corresponding numbers :-

English Alphabet   A B C D E F G H I J   K   L   M

Corresponding No. 1 2 3 4 5 6 7 8 9 10 11 12 13

(Word Not set in one row so font size 11 not 13)

Example

CHAIR : RIAHC : : TABLE : ?

(A) BLAET   (B) ETABL

(C) LETAB   (D) ELBAT

Ans. (D)

Solution –

Like,

CHAIR ⟶ RIAHC

Similarly,

TABLE ⟶ ELBAT

Example – 9

HORSE : SERHO :: CURSE : ?

(A) RCUES   (B) SECRU
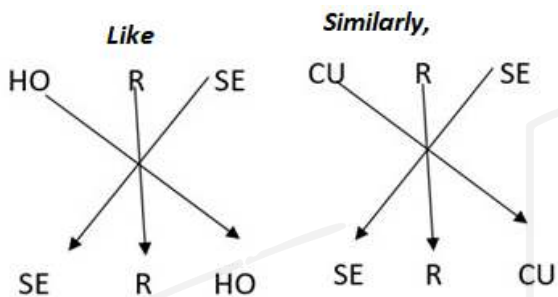
(C) SERCU   (D) ERCUS

Ans. (C)

Solution

Example – 10

EGH : IJK :: NPQ : ?

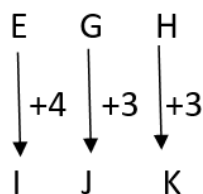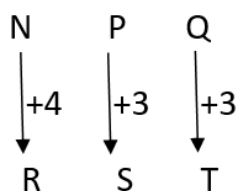(A) PRS   (B) RSU

(C) RTU   (D) RST

Ans. (D)

Solution

Like,

Similarly,

Type – 3 – Number Analogy

In the questions that come under this, questions are asked based on the order of numbers, the order of the squares of the numbers, the sequence of prime numbers, etc. In other words, the questions asked under it are based on mathematical operations.

Example 11 Select the option, which is related to the third term in the same way as the second term is related to the first term.

23 : 69 : 27 : ?

(A) 91   (B) 73

(C) 81   (D) 89

Ans. (C)

Solution: Like 23 × 3 = 69

Similarly, 27 × 3 = 81

Example – 12 Select the related number from the given alternatives.

8 : 32 :: 6 : ?

(A) 31   (B) 22

(C) 18   (D) 21

Ans. (C)

Solution: Like $\quad 8^2 = 64$

$64 \div 2 = 32$

Similarly, $6^2 = 36$

$36 \div 2 = 18$

Example – 13 From the given alternatives, find the one which is similar to 10 : 13 : : 16.

(A) 8 : 10 : 15   (B) 13 : 16 : 19

(C) 23 : 29 : 23   (D) 10 : 16 : 23

Ans. (B)

Solution: Like, 10 : 13 : : 16

$\qquad\qquad\qquad\qquad$ +3 $\quad$ +3

Similarly, $\qquad$ 13 + 16 + 19

$\qquad\qquad\qquad\qquad$ +3 $\quad$ +3

Analogy or Similarity

Type – 1

Directions – Find out the related words from the alternatives given below.

1. Virus : Chickenpox : : Bacteria : ?

   (1) Chickenpox   (2) Typhoid

   (3) Malaria   (4) Sleeping Disease

   Ans. (2) Typhoid

   Explanation: Smallpox is spread by virus. Similarly, typhoid is caused by bacteria (Bacteria name: Salmonella Typhi).

2. Book : Shelf : : Clothes : ?

   (1) Hanger   (2) Cupboard

   (3) Wardrobe   (4) Bureau

   Ans.(3) Wardrobe

   Explanation – Books are kept systematically on the shelf. Similarly, clothes are kept in the wardrobe.

3. Gramophone : Record : : Video : ?

   (1) T.V.   (2) Recording

   (3) Cassette   (4) Camera

   Ans. (3) Cassette

   Explanation – Gramophone (record) is a thin circular plastic object on which voice, especially music, is recorded.

   Video is recorded on cassette or magnetic tape.

4. Axe : Rip : : Path : ?

   (1) Shear   (2) Pull

   (3) Ploughing   (4) Knitting

   Ans. (4) Knitting

   Explanation – The axe is used to cut or tear wood. In the same way something is knitted with needle.

Type – II

Direction – Find out the related number from the alternatives given below.

5. 85 : 42 : : 139 : ?

    (1) 68   (2) 69   (3) 70   (4) 67

Ans. (2) 69

Explanation – 85-1 = 84, 84 ÷ 2 = 42

139 – 1 = 138, 138 ÷ 2 = 69

6. 8 : 28 : : 27 : ?

    (1) 8   (2) 28   (3) 64   (4) 65

Ans (4) 65

Explanation – (4) $(2)^3$ 2 x 2 x 2 = 8

28 = $(3)^3$ + 1 = 3 x 3 x 3 + 1 = 28

$(3)^3$ = 3 x 3 x 3 = 27

∴ ? = 4 x 4 x 4 + 1 = 65

7. 8 : 56 : : 9 : ?

    (1) 10   (2) 63   (3) 7   (4) 9

Ans. (2) 63

Explanation – The relationship is as follows = $x - 7$

$8 \times 7 = 56$

Similarly,

$9 \times 7 = 63$

8. 8 : 512 :: 9 : ?

    (1) 781   (2) 792   (3) 729   (4) 728

Ans. (3) 729

Explanation – $8 : (8)^3 = 512$

Similarly,

$9 : (9)^3 = 729$

Type – III

Directions - Find out the related letters from the alternatives given below.

9. AGMS : CIOU : : DJPV : ?

   (1) BHNY   (2) STUV   (3) FLRX   (4) MNOP

   Ans. (3) FLRX
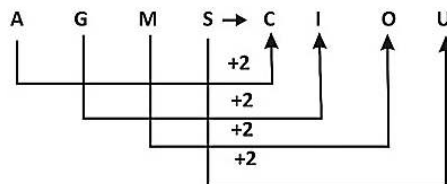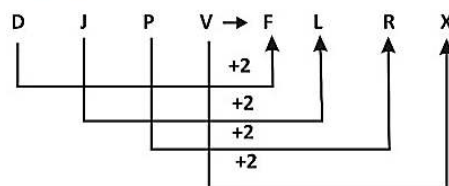
Explanation - Like,

10. CAT : DDY : : BIG : ?

   (1) CLL   (2) CLM   (3) CML   (4) CEP

   Ans. (3) CLL
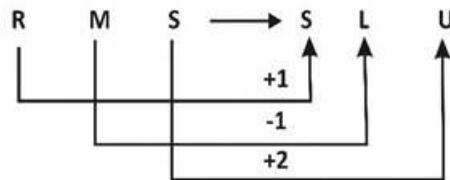
   Explanation – Like,
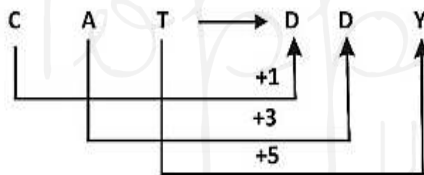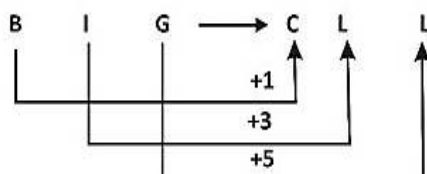
11. KMF : LLH : : RMS : ?

   (1) SLR   (2) SLU

   (3) SSU   (4) SUS

   Ans. (2) SLU

Explanation – Like,

K   M   F   →   L   L   H
+1
-1
+2

Similarly,

R   M   S   →   S   L   U
+1
-1
+2
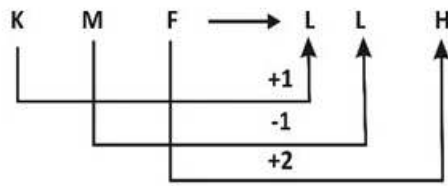
12. *CEGI : RTVX : : IKMO : ?*

   (1) JKLNP   *(2) LNPR*

   (3) MNPQ   *(4) DFHI*

   Ans.(2) *LNPR*

   Explanation – *Like,*

C   E   G   I   →   R   T   V   X

Similarly,

I   K   M   O   →   L   N   P   R
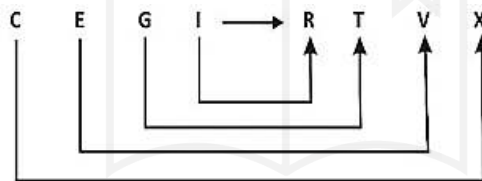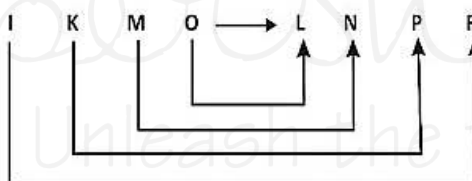
13. *ABCD : QRST : : BACD : ?*

   (1) RQST   *(2) STQR*

   (3) QRST   *(4) RSTQ*

   Ans. (1) *RQST*

   Explanation –

A   B   C   D
↓   ↓   ↓   ↓
Q   R   S   T

Therefore,

B   A   C   D
↓   ↓   ↓   ↓
R   Q   S   T
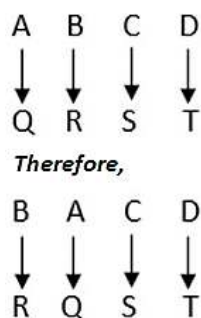
14. ACE : BDF : : MAQ : ?

(1) BMW   (2) NQP

(3) NPR   (4) BEF

Ans. (3) NPR

Explanation – Like,
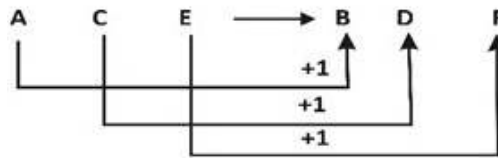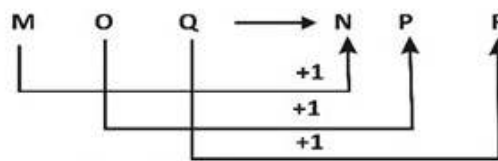
Similarly,

15. BFG : EIJ : : RVW : ?

(1) UWY   (2) UYZ

(3) SWX   (4) QUV

Ans. (2) UYZ

Explanation - Like,
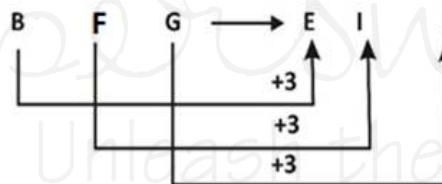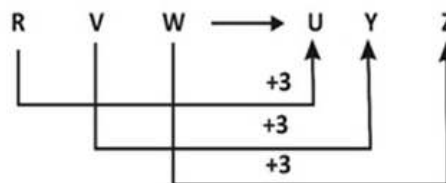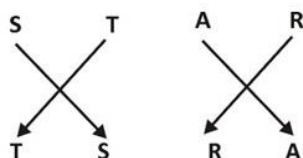

Similarly,
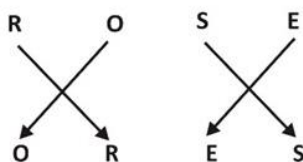

16. STAR : TSRA : : ROSE : ?

(1) ORSE   (2) ORES

(3) ESOR   (4) SORE

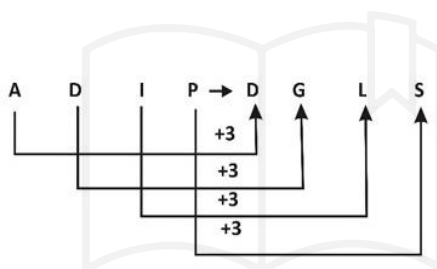**Ans.** (2) ORES

Explanation – Like   ,

Similarly,
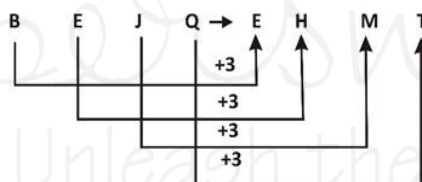

17. ADIP : DGLS : : BEJQ : ?

(1) CGLS   (2) EHMT

(3) EJQU   (4) FINU

Ans. (2) EHMT
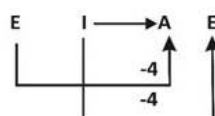
Explanation – Like,

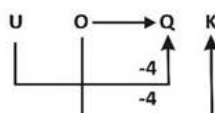
Similarly,

18. EI : AE : : UO : ?

(1) PK   (2) QJ

(3) PJ   (4) QK

Ans. (4) QK

Explanation – Like,

Similarly,

19. GHP : FFM : : PIC : ?

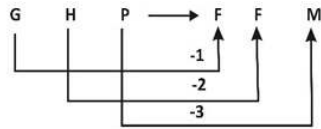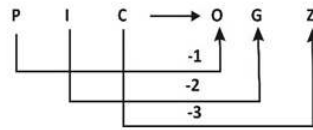(1) OGZ   (2) OHZ

(3) NGA   (4) NHA

Ans. (1) OGZ

Explanation – Like,

Similarly,