

Series Completion & Analogy

Directions Q. 1 to Q. 4 : In each of the following questions, a number series is given with one term missing, Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

1. 10, 100, 200, 310, ?
(a) 400 (b) 410 (c) 420 (d) 430
2. 325, 259, 204, 160, 127, 105, ?
(a) 94 (b) 96 (c) 98 (d) 100
3. 3, 12, 27, 48, 75, 108, ?
(a) 147 (b) 162 (c) 183 (d) 192
4. $\frac{4}{9}, \frac{9}{20}, ?, \frac{39}{86}$
(a) $\frac{17}{40}$ (b) $\frac{19}{42}$ (c) $\frac{20}{45}$ (d) $\frac{29}{53}$

Directions Q. 5 to Q. 6 : In each of the following questions, one term in the number series is wrong. Find out the wrong term.

5. 4, 10, 22, 46, 96, 190, 382
(a) 4 (b) 10 (c) 96 (d) 382
6. 46080, 3840, 384, 48, 24, 2, 1
(a) 384 (b) 48 (c) 24 (d) 2

Directions Q. 7 to Q. 8 : In each of the following questions, various terms of an alphabet series are given with one or more terms missing as shown by (?). Choose the missing terms out of the given alternatives.

7. Z, ?, T, ?, N, ?, H, ?, B
(a) W, Q, K, E (b) W, R, K, E (c) X, Q, K, E (d) X, R, K, E
8. b e d f ? h j ? l
(a) i m (b) m i (c) i n (d) j m

Directions Q. 9 to Q. 10 : In each of the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

9. ab _ d _ aaba _ na _ badna _ b
(a) andaa (b) babda
(c) badna (d) dbanb
10. c _ baa _ aca _ cacab _ acac _ bca
(a) acbaa (b) bbcaa (c) bccab (d) cbaac

Directions Q. 11 to Q. 13 : 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 of :: 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.

11. Rupee : India :: Yen : ?
(a) Turkey (b) Bangladesh
(c) Japan (d) Pakistan
12. India : President :: State : ?
(a) Prime Minister (b) Governor
(c) Chief Minister (d) Mayor

13. Energy : Joule :: Volume : ?

- (a) Solid (b) Capacity
(c) Kilogram (d) Litre

Directions Q. 14 to Q. 17 : In each of the following questions, there is a certain relation between two given words on one side of :: and one word is given on another side of :: 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 best alternative.

14. Equine : Horse :: Vulpine : ?
(a) Dog (b) Cat (c) Wolf (d) Eagle
15. Dawn : Dusk :: Inauguration : ?
(a) Invitation (b) Valediction
(c) Repetition (d) Organisation
16. Hair : Bald :: Crop : ?
(a) Field (b) Farmer (c) Rain (d) Barren
17. Matricide : Mother :: Homicide : ?
(a) Human (b) Children (c) Father (d) Apes

Directions Q. 18 : 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 below each question. Find out this term.

18. kcaC : Cack :: XgmF : ?
(a) EmgF (b) EgmX (c) FmgX (d) GmeF

Directions Q. 19 : 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 rights. 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 term.

19. M x N : 13 x 14 :: F x R : ?
(a) 7 x 19 (b) 5 x 17
(c) 14 x 15 (d) 6 x 18

Directions Q. 20 : In this type of questions, a group of three or four inter-related words is given. The candidate is required to trace out the relationship among these words and choose another group with similar relationship, from amongst the alternatives provided.

20. Tehsil : District : State : Country
(a) Metropolitan : Megapolis : Town : City
(b) Block : Colony : Zone : City
(c) Province : District : State : Country
(d) Madhya Pradesh : Maharashtra : Mumbai, Victoria Terminus

Directions Q. 21 : Choose the word which is least like the other words in the group.

21.
(a) Copper (b) Zine
(c) Brass (d) Aluminium
(e) Iron

Directions Q 22 to Q. 23 : In each of the following questions, Five words have been given out of which four are alike in some manner, while the fifth one is different. Choose out the odd one.

22.

- | | |
|------------------|-----------------|
| (a) Geometry | (b) Algebra |
| (c) Trigonometry | (d) Mathematics |
| (e) Arithmetic | |

23.

- | | |
|-------------|---------------|
| (a) Cigar | (b) Cigarette |
| (c) Tobacco | (d) Pipe |
| (e) Hookah | |

Directions Q 24 : In each of the following questions, four words have been given, out of which three are alike in some manner and the fourth one is different. Choose out the odd one.

24.

- | | |
|--------------|---------------|
| (a) Day | (b) Fortnight |
| (c) Calendar | (d) Month |

Directions Q 25 : In each of the following questions, five numbers are given. Out of these, four are alike in a certain way but rest one is different. Choose the one which is different from the rest four.

25.

- | | | | |
|----------|----------|----------|----------|
| (a) 2384 | (b) 1592 | (c) 3756 | (d) 4298 |
| (e) 3629 | | | |

Directions Q 26 : Choose the odd numeral pair/group in each of the following questions :

26.

- | | |
|--------------|--------------|
| (a) 12 – 144 | (b) 13 – 156 |
| (c) 15 – 180 | (d) 16 – 176 |

Directions Q 27 : In each of the following questions, some groups of letters are given, all of which, except one, share a common similarity while one is different. Choose the odd one out.

27.

- | | | | |
|---------|---------|---------|---------|
| (a) AOT | (b) CPA | (c) REB | (d) TIW |
| (e) QUD | | | |

Directions Q 28 : Choose the odd numeral pair/group in each of the following questions :

28.

- | | |
|-------------|-------------|
| (a) 2, 3, 6 | (b) 6, 1, 6 |
| (c) 3, 3, 9 | (d) 6, 2, 5 |

Directions Q 29 : Choose the number which is different from others in the group.

29.

- | | | | |
|--------|--------|--------|--------|
| (a) 21 | (b) 36 | (c) 49 | (d) 56 |
| (e) 91 | | | |

30.

- | | | | |
|---------|--------|--------|---------|
| (a) 48 | (b) 50 | (c) 82 | (d) 170 |
| (e) 290 | | | |

Series Completion & Analogy (Solution)

1. (d) The pattern is $+90 + 10, +110, \dots$
So, missing term $= 310 + 120 = 430$.
2. (a) The pattern $-66, -55, -44, -33, -22, \dots$
So, missing term $= 105 - 11 = 94$
3. (b) The terms of the given series are
 $3 \times 1^2, 3 \times 2^2, 3 \times 3^2, 3 \times 4^2, 3 \times 5^2, 3 \times 6^2, \dots$
So, missing term $= 3 \times 7^2 = 3 \times 49 = 147$.
4. (b) The sequence in the numerators is $+5, +10, +20, \dots$ and that in the denominators is $+11, +22, +44, \dots$
So, the numerator of the missing fraction should be $(9 + 10)$ i.e. and the denominator should be $(20 + 22)$ i.e. 42. Thus, the missing term is $19/42$.
5. (c) The correct pattern is $+6, +12, +24, +48, +96, +192$.
So, 96 is wrong and must be replaced by $(46 + 48)$ i.e. 94.
6. (c) The correct pattern is $\div 12, \div 10, \div 8, \div 6, \dots$
So, 24 is wrong and must be replaced by $(48 \div 6)$ i.e. 8.
7. (a) $Z \xrightarrow{-6} T \xrightarrow{-6} N \xrightarrow{-6} H \xrightarrow{-6} B$
 $Z \xrightarrow{-3} \textcircled{W} \xrightarrow{-3} T \xrightarrow{-3} \textcircled{Q} \xrightarrow{-3} N \xrightarrow{-3} \textcircled{K}$
 $\quad \quad \quad \xrightarrow{-3} H \xrightarrow{-3} \textcircled{E} \xrightarrow{-3} B$
8. (a) The series may be divided into groups as shown :
b e d / f ? h / j ? l
Clearly in the first group, the second and third letters are respectively three and two steps ahead of the first letter. A similar pattern would follow in the second and third groups.
9. (a) The series is abada/abada/abada/ab. Thus, the pattern 'abadna' is repeated.
10. (a) The series is cab/aa/cacab/cacab/aa/cacab/ca.
Thus, the pattern 'cacab/cacab/aa' is repeated.
11. (c) Rupee is the currency of India. Similarly, Yen is the currency of Japan.

12. (b) Second is the constitutional head of the first.
13. (d) Second is a unit to measure the first.
14. (c) Enquine is horselike and vulpine is wolflike.
15. (b) One is followed by other.
16. (d) A head without hair is called bald and land without crop is called barren.
17. (a) First is the name given to the act of killing the second.
18. (c) The order of the letters of the first group is reversed to obtain the second group.
19. (d) M and N are 13th and 14th letters of the English alphabet respectively. So, $M \times N$ corresponds to 13×14 .
Similarly, F and R are 6th and 18th letters of the English alphabet respectively.
So, $F \times R$ corresponds to 6×18 .
20. (b) The given group contains four items of a hierarchical system, in the order from lowest to highest levels. A similar relationship exists among the components of (b). Hence, the answer is (b).
21. (c) Here, all except Brass are metals, while Brass is an alloy. Hence, the answer is (c).
22. (d) All except Mathematics are branches of Mathematics.
23. (c) All except Tobacco are means of smoking.
24. (c) All others are parts of a calendar.
25. (e) In all other numbers, the last digit is two times the first.
26. (d) In all other pairs, second number is obtained by multiplying the first number by 12.
27. (b) In all other groups, the middle letter is a vowel.
28. (d) In all other groups, the third number is equal to the product of the first two numbers.
29. (b) Each of the numbers except 36, is divisible by 7. Hence, the answer is (b).
30. (a) Each of the numbers except 48, is one more than the square of a certain number. Hence, the answer is (a).