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| **SERIES COMPLETION** |

1. **Which number would replace question mark in the series 7, 12, 19, ?, 39.**
2. **24 (b) 26 (c) 28 (d) 29**

**Clearly, the given sequence follows the pattern +5, +7, +9 ……**

**7 + 5 = 12 12 + 7 = 19 19 + 9 = 28**

1. **Which fraction comes next in the sequence (1/2), (3/4), (5/8), (7/16), ?**
2. **(9/32) (b) (10/17) (c) (11/34) (d) (12/35)**

**Numerators are set of odd numbers, next is 9.**

**Denominator are 21, 22, 23, 24, next is 25 = 32 Next fraction = (9/32)**

1. **3, 9, 27, 81, ?**
2. **324 (b) 243 (c) 210 (d) 162**

**Each term of the given series is obtained by multiplying its preceding term by 3.**

**Next number = 81 x 3 = 243**

1. **1, 9, 17, 33, 49, 73, ?**
2. **97 (b) 98 (c) 99 (d) 100**

**The pattern is +8, +8, +16, +16, +24, + 24**

**Next number = 73 + 24 = 97**

1. **1, 2, 3, 5, 8, ?**
2. **9 (b) 11 (c) 13 (d) 15**

**Each term in the series is the sum of the preceding two terms.**

**1 + 2 = 3 2 + 3 = 5 3 + 5 = 8 5 + 8 = 13 is the next number**

1. **0.5, 1.5, 4.5, 13.5, ?**
2. **45.5 (b) 39.5 (c) 30.5 (d) 40.5**

**Each term of the sequence is obtained by multiplying the preceding term by 3.**

**0.5 x 3 = 1.5 1.5 x 3 = 4.5 4.5 x 3 = 13.5 13.5 x 3 = 40.5**

1. **3, 6, 18, 72, ?**
2. **144 (b) 216 (c) 288 (d) 360**

**The pattern is x2, x3, x4 ……**

**Next number = 72 x 5 = 360**

1. **5, 17, 37, 65, ?, 145**
2. **95 (b) 97 (c) 99 (d) 101**

**The numbers are 22 + 1, 42 + 1, 62 + 1, 82 + 1 …..**

**Missing number = 102 + 1 = 101**

1. **840, 168, 42, 14, 7, ?**
2. **1 (b) 7 (c) 9 (d) 12**

**The pattern is 840 ÷ 5 = 168 168 ÷ 4 = 42 42 ÷ 3 = 14 14 ÷ 2 = 7**

**Missing number is 7 ÷ 1 = 7**

**FIND THE WRONG TERM IN THE GIVEN SERIES:**

1. **Find the wrong number in the series: 7, 28, 63, 124, 215, 342, 511**
2. **7 (b) 28 (c) 124 (d) 215**

**Clearly, the correct sequence is 1 less than cubes of the numbers starting from 2**

**23 – 1 = 7 33 – 1 = 27 – 1 = 26 is the correct answer**

1. **Find the wrong number in the series: 24, 27, 31, 33, 36**
2. **24 (b) 27 (c) 31 (d) 33**

**Each term in the series is increased by 3 to obtain the next term.**

**So, 31 is wrong and must be replaced by (27 + 3) = 30**

1. **Find the wrong number in the series: 15, 16, 22, 29, 45, 70**
2. **16 (b) 22 (c) 45 (d) 70**

**The pattern is +1, +4, +9, +16, …….**

**So 22 is wrong and must be replaced by (16 + 4) = 20**

1. **Find the wrong number in the series: 6, 14, 30, 64, 126**
2. **6 (b) 14 (c) 64 (d) 126**

**Each term is multiplied by 2 and then increased by 2 to obtain the next term.**

**So 64 is wrong and must be replaced by (30 x 2 + 2) = 62**

1. **Find the wrong number in the series: 5, 10, 40, 80, 320, 550, 2560**
2. **80 (b) 320 (c) 550 (d) 2560**

**The sequence is x2, x4, x2, x4, ……………**

**So, 550 is wrong and must be replaced by (320 x 2) = 640**

1. **Find the wrong number in the series: 10, 14, 28, 32, 64, 68, 132**
2. **28 (b) 32 (c) 64 (d) 132**

**Alternately, the numbers are increased by four and doubled to get the next number.**

**10 + 4 = 14, 14 x 2 = 28, 28 + 4 = 32, 32 x 2 = 64, 64 + 4 = 68, 68 x 2 = 136**

1. **Find the wrong number in the series: 56, 72, 90, 110, 132, 150**
2. **72 (b) 90 (c) 110 (d) 150**

**The numbers are 7 x 8, 8 x 9, 9 x 10, 10 x 11, 11 x 12, 12 x 13**

**So, 150 is wrong and must be replaced by (12 x 13) = 156**

1. **Find the wrong number in the series: 2, 5, 10, 50, 500, 5000**
2. **5 (b) 10 (c) 50 (d) 5000**

**Each term of the series is the product of the preceding two terms.**

**2 x 5 = 10, 5 x 10 = 50, 10 x 50 = 500, 50 x 500 = 25000 So, 5000 is wrong**

1. **Find the wrong number in the series: 105, 85, 60, 30, 0, -45, -90**
2. **105 (b) 60 (c) 0 (d) -45**

**The sequence is -20, -25, -30, …………….**

**So, 0 is wrong and must be replaced by (30 – 35) = -5**

1. **Find the wrong number in the series: 325, 259, 202, 160, 127, 105, 94**
2. **94 (b) 127 (c) 202 (d) 259**

**The sequence is 94 (+11) = 105 105 (+22) = 127 127 (+33) = 160**

**160 (+44) = 204 Therefore 202 is wrong**

1. **What is the next term in: BDF, CFI, DHL, ?**
2. **CJM (b) EIM (c) EJO (d) EMI**

**Clearly, the first, second and third letters of each term are respectively moved one, two and three steps forward to obtain the corresponding letters of the next. Hence the answer is EJO**

1. **AZ, GT, MN, ?, YB**
2. **KF (b) RX (c) SH (d) TS**

**The first letter of each term is moved six steps forward while the second letter is moved six steps backward to obtain the corresponding letters of the next term.**

**So the answer is SH**

1. **BEH, KNQ, TWZ, ?**
2. **IJL (b) CFI (c) BDF (d) ADG**

**All the letters of each term are moved nine steps forward to obtain the corresponding letters of the next term. So CFI is the answer**

1. **3F, 6G, 11I, 18L, ?**
2. **21O (b) 25N (c) 27P (d) 27Q**

**The letters in the first, second, third and fourth terms are respectively moved one, two, three and four steps forward to obtain letter in the subsequent terms. The sequence followed the numbers is +3, +5, +7, +9.**

**So, P is the required letter and 18 + 9 = 27 27P is the answer**

1. **KM5, IP8, GS11, EV14, ?**
2. **BX17 (b) BY17 (c) CY18 (d) CY17**

**The first letter of each term is moved two steps backward and the second letter is moved three steps forward to obtain the corresponding letters of the next term. The number in each term is 3 more than that in the preceding term. CY17 is the answer**

1. **2Z5, 7Y7, 14X9, 23W11, 34V13, ?**
2. **27U24 (b) 47U15 (c) 45U15 (d) 47V14**

**The first numbers in the terms follow the sequence +5, +7, +9, +11, +13. The middle letters form the series Z, Y, X, W, V,U. The last numbers form the series 5, 7, 9, 11, 13, 15.**

**47U15 is the answer**

1. **C4X, F9U, I16R, ?**
2. **K25P (b) L25P (c) L25O (d) L27P**

**The first letter of each term is moved three steps forward and the last letter is moved three steps backward to obtain the corresponding letters of the next term. The numbers form sequence 22, 32, 42, 52. L25O is the answer**

**SERIES COMPLETION**

1. **- - a b a - - b a – a b**
2. **abbba (b) abbab (c) baabb (d) bbaba**

**The series is ab/ab/ab/ab/ab/ab. Thus the pattern (ab) is repeated, answer is (b)**

1. **– b a a – a a b – a – a**
2. **aabb (b) aaba (c) abab (d) baab**

**The series is aba/aba/aba/aba. Thus pattern (aba) is repeated, answer is (c)**

1. **b a – b – a a b – a – b**
2. **abaa (b) abba (c) baab (d) babb**

**The series is baab/baab/baab. So (b) is the answer**

1. **g f e – i g – e i i – f e i – g f – i i**
2. **eifgi (b) figie (c) ifgie (d) ifige**

**The series is (gfeii) is repeated. So (c) is the answer**

1. **c – b b a – c a b - a c – a b – a c**
2. **abcbc (b) acbcb (c) babcc (d) bcacb**

**The series is cabbac/cabbac/cabbac. So the answer is (b)**

**CODING-DECODING**

1. **If in a certain language MYSTIFY is coded as NZTUJGZ, how is NEMESIS coded in that language?**
2. **MDLHRDR (b) OFNFTJT (c) ODNHTDR (d) PGOKUGU**

Clearly, each letter in the word MYSTIFY is moved one step forward to obtain the corresponding letter of the code. OFNFTJT is the answer

1. **If TAP is coded as SZO, then how is FREEZE coded?**
2. **EQDFYG (b) ESDFYF (c) GQFDYF (d) EQDDYD**

Clearly, each letter in the word TAP is moved one step backward to obtain the corresponding letter of the code. EQDDYD is the answer

1. **In a certain code, SIKKIM is written as THLJJL. How is TRAINING written in that code?**
2. **SQBHOHOH (b) UQBHOHOF (c) UQBJOHHO (d) UQBJOHOH**

Clearly, the letters in the word SIKKIM are moved alternately one step forward and one step backward to obtain the letters of the code. UQBHOHOF is the answer

1. **In a certain code, MENTION is written as LNEITNO. How is PATTERN written in that code?**
2. **APTTREM (b) PTAETNR (c) OTAETNR (d) OTAETRN**

Clearly, to obtain the code, the first letter of the word MENTION is moved one step backward and the remaining letters are reversed in order, taking two at a time. OTAETNR is the answer

1. **In a certain code, FORGE is written as FPTJI. How is CULPRIT written in that code?**
2. **CSJNPGR (b) CVMQSTU (c) CVNSVNZ (d) CXOSULW**

Clearly, the first letter in the word FORGE remains as it is and the second, third, fourth and fifth letters are respectively moved one, two, three and four steps forward to obtain the corresponding letters of the code. CVNSVNZ is the answer

1. **In a certain code, MONKEY is written as XDJMNL. How is TIGER written in that code?**
2. **QDFHS (b) SDFHS (c) SHFDQ (d) UJHFS**

The letters of the word are written in a reverse order and then each letter is moved one step backward to obtain the code. QDFHS is the answer

1. **If FRIEND is coded as HUMJTK, how is CANDLE written in that code?**
2. **EDRIRL (b) DCQHQK (c) ESJFME (d) FYOBOC**

The first, second, third, fourth, fifth and sixth letters of the word are respectively moved two, three, four, five, six and seven steps forward to obtain the corresponding letters of the code. EDRIRL is the answer

1. **If D = 4 and COVER = 63, then BASIS = ?**
2. **49 (b) 50 (c) 54 (d) 55**

Clearly, in the given code, A = 1, B = 2, C = 3,…….so that

COVER = 3 + 15 + 22 + 5 + 18 = 63

Now, in BASIS, B = 2, A = 1, S = 19, I = 9 Total = 50

1. **If Z = 52 and ACT = 48, then BAT will be equal to:**
2. **39 (b) 41 (c) 44 (d) 46**

In the given code, A = 2, B = 4, C = 6, …….Z = 52

So, ACT = 2 + 6 + 40 = 48 and BAT = 4 + 2 + 40 = 46

1. **If AT = 20, BAT = 40, then CAT will be equal to:**
2. **30 (b) 50 (c) 60 (d) 70**

Taking A = 1, B = 2,………T = 20…….Z = 26

AT = 1 x 20 = 20 CAT = 3 x 1 x 20 = 60