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Number series Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

Number series Quiz 29

Directions : What should come in place of Question mark (?) in the following Series.

1. 23, 57, 1113, 1719, 2329, ?

- A. 3137 B. 2187 C. 3617 D. 3317 E. 3117

2. 2, 3, 5, 5, 7, 10, 11, 13, 15, 17, 19, 20, 23, ?

- A. 24 B. 26 C. 27 D. 25 E. 29

3. 2, 10, 24, 44, 70, 102, ?

- A. 142 B. 140 C. 144 D. 136 E. 128

4. 3, 2, -1, -6, -13, -22, ?

- A. -29 B. -33 C. -35 D. -37 E. -27

5. 7, 27, 19, 26, 31, 24, 43, 21, ?

- A. 55 B. 48 C. 57 D. 49 E. 51

6. 121 144 164 181 195 ?

- A. 212 B. 225 C. 211 D. 209 E. 206

7. 12 7 7 12 37 ?

- A. 187 B. 172 C. 165 D. 135 E. None of these

8. 35 47 71 107 155 ?

- A. 225 B. 220 C. 214 D. 215 E. 252

9. 81 105 134 168 212 276 ?

- A. 360 B. 340 C. 380 D. 400 E. 410

10. 84 41 19 7.5 ? -2.375

- A. 0 B. 2.5 C. 1.125 D. 2 E. 1.25

Correct Answers:

1	2	3	4	5	6	7	8	9	10
A	E	B	B	A	E	B	D	C	E

Explanations:

- 1.** In the given series, each number is formed by combining 2 consecutive prime numbers starting from 2. For example 2 and 3 is written as 23, 5 and 7 is written as 57, 11 and 13 is written as 1113 and so on.
∴ Two prime numbers after 29 are 31 and 37.
∴ The next number in the given series is 3137.
Hence, option A is correct.

- 2.** There are two patterns in this series.
Starting from the third number, every third number is a multiple of 5 i.e. 5, 10, 15, 20.
Now, consider the remaining terms i.e. 2, 3, 5, 7, 11, 13, 17, 19, 23
Thus, there are two prime numbers between consecutive multiples of 5.
Hence, the next term should be the next prime number i.e. 29.
Hence, option E is correct.

- 3.** Consider the difference between consecutive terms i.e. 8, 14, 20, 26 and 32.
Observe that the difference has been increasing by 6 for each term.
Hence, the next difference = 38 and next term = $102 + 38 = 140$
Hence, option B is correct.

- 4.** Consider the difference between consecutive terms: -1, -3, -5, -7 and -9.
Hence, the next difference should be -11.
Hence, if next term = x ; $x - (-22) = -11$
∴ $x = -22 - 11 = -33$
Hence, option B is correct.

5. Since the numbers increase and decrease, there might be an alternating series.

Considering alternate terms, there are two series: 7, 19, 31, 43, ? and 27, 26, 24, 21.

The required term should follow the logic of the first series. Observe that this series has a common difference i.e. 12.

$$\therefore \text{Next term} = 43 + 12 = 55$$

Hence, option A is correct.

6.

Series Pattern	Given Series
121	121
121 + 23	144
144 + 20	164
164 + 17	181
181 + 14	195
195 + 11	206



Hence, option E is correct.

7.

Series Pattern	Given Series
12	12
12 × 1 – 5	7
7 × 2 – 7	7
7 × 3 – 9	12
12 × 4 – 11	37
37 × 5 – 13	172



Hence, option B is correct.

8.

Series Pattern	Given Series
35	35
35 + 12	47
47 + 24	71
71 + 36	107
107 + 48	155
155 + 60	215



Hence, option D is correct.

9.

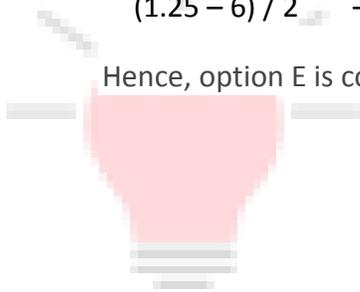
Series Pattern	Given Series
$81 + 24$	105
$105 + (24 + 5)$	134
$134 + (24 + 5 \times 2)$	168
$168 + (24 + 10 \times 2)$	212
$212 + (24 + 20 \times 2)$	276
$276 + (24 + 40 \times 2)$	380 ✓

Hence, option C is correct.

10.

Series Pattern	Given Series
84	84
$(84 - 2) / 2$	41
$(41 - 3) / 2$	19
$(19 - 4) / 2$	7.5
$(7.5 - 5) / 2$	1.25 ✓
$(1.25 - 6) / 2$	-2.375

Hence, option E is correct.



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