

UPSC CSAT DPP 08 - Reasoning

Q1 What is the value of X in the given series 91, 97, 117, 159, 231, X?

- (A) 341 (B) 352
(C) 211 (D) 323

Q2 Find the next term in the given series: 8, 10, 14, 54, 196, ?

- (A) 980 (B) 1000
(C) 1010 (D) 1020

Q3 What is the next term of the given series 6, 7, 18, 63, 268, ?

- (A) 975 (B) 1035
(C) 1365 (D) 1555

Q4 Find the next term of the given series: 44, 52, 59, 73, 83, ?

- (A) 94 (B) 93
(C) 91 (D) 89

Q5 What is the next term of the series – WXEF, UVGH, STIJ, QRKL, ?

- (A) OPMN (B) YZCD
(C) KLMN (D) IJKL

Q6 Consider the sequence *a b e _ c b d a c e d* that follows a certain pattern. Which of the

following completes the sequence?

- (A) dbdab (B) cdebe
(C) cdaeb (D) eacbd

Q7 Consider the sequence *ABC _ AAB_CBA _ CCB_A _ CBA* that follows a certain pattern. Which of the following completes the sequence?

- (A) BCCACABB (B) BBBACACB
(C) CABCAABC (D) CBCABABC

Q8 What is the next term of the series – KAL, KEL, KIL, KOL, ?

- (A) KSL (B) KUL
(C) KVL (D) KXL

Q9 Consider the following series: ESNY, DQLU, ?, BMHM, AKFI

Find the term of the series in place of “?”.

- (A) COJQ (B) COJR
(C) CPKQ (D) CPKR

Q10 Consider the sequence *AB_D_BC_A_CD_B_D* that follows a certain pattern. Which of the following completes the sequence?

- (A) CADBAC (B) CABDAC
(C) CABCAD (D) CCCCDA



Answer Key

Q1 (A)

Q2 (C)

Q3 (C)

Q4 (A)

Q5 (A)

Q6 (C)

Q7 (D)

Q8 (B)

Q9 (A)

Q10 (A)



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Hints & Solutions

Q1 Text Solution:

Ans: (a)

Explanation:

The given series is 91, 97, 117, 159, 231, X

By observing the above series,

1st term of the series = $a_1 = 91$

2nd term of the series = $a_2 = 97 = 91 + 6 = 91 + (3 \times 2)$

3rd term of the series = $a_3 = 117 = 97 + 20 = 97 + (5 \times 4)$

4th term of the series = $a_4 = 159 = 117 + 42 = 117 + (7 \times 6)$

5th term of the series = $a_5 = 231 = 159 + 72 = 159 + (9 \times 8)$

So, the next term of the series X = $231 + (11 \times 10) = 231 + 110 = 341$

Hence, option (a) is correct.

Q2 Text Solution:

Ans: (c)

Explanation:

The given series is 8, 10, 14, 54, 196, ?

By observing the following pattern,

1st term of the series = $a_1 = 8$

2nd term of the series = $a_2 = 10 = 8 \times 1 + 1 \times 2 = 8 + 2$

3rd term of the series = $a_3 = 14 = 10 \times 2 - 2 \times 3 = 20 - 6$

4th term of the series = $a_4 = 54 = 14 \times 3 + 3 \times 4 = 42 + 12 = 54$

5th term of the series = $a_5 = 196 = 54 \times 4 - 4 \times 5 = 216 - 20$

Similarly, the next term of the series = $a_6 = 196 \times 5 + 5 \times 6 = 1010$

Hence, option (c) is correct.

Q3 Text Solution:

Ans: (c)

Explanation:

The given series is 6, 7, 18, 63, 268, ?

By observing the following pattern,

1st term of the series = $a_1 = 6$

2nd term of the series = $a_2 = 7 = 6 \times 1 + 1^2$

3rd term of the series = $a_3 = 18 = 7 \times 2 + 2^2$

4th term of the series = $a_4 = 63 = 18 \times 3 + 3^2$

5th term of the series = $a_5 = 268 = 63 \times 4 + 4^2$

Similarly, the next term of the series = $a_6 = 268 \times 5 + 5^2 = 1365$

Hence, option (c) is correct.

Q4 Text Solution:

Ans: (a)

Explanation:

The given series is 44, 52, 59, 73, 83, ?

By observing the following pattern,

1st term of the series = $a_1 = 44$

2nd term of the series = $a_2 = 52 = 44 + (4 + 4)$

3rd term of the series = $a_3 = 59 = 52 + (5 + 2)$

4th term of the series = $a_4 = 73 = 59 + (5 + 9)$

5th term of the series = $a_5 = 83 = 73 + (7 + 3)$

So, the next term of the given series is $a_6 = 83 + (8 + 3) = 94$

Hence, option (a) is correct.

Q5 Text Solution:

Ans: (a)

Explanation:

The given series is W X E F, U V G H, S T I J, Q R K L, ?

Now, split each word in pairs of two i.e.

W X / E F, U V / G H, S T / I J and Q R / K L

We can clearly observe that W X, U V, S T and Q R are written in reverse alphabets. So the next two alphabets are O P.

Similarly, E F, G H, I J and K L are written in alphabetical order. So, the next two alphabets are M N.

So, the next term of the series is O P M N.

Hence, option (a) is correct.

Q6 Text Solution:

Ans: (c)

Explanation:

The given sequence: a _ b e _ _ c b _ d a c _ e d

There are total 15 letters in the sequence.



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Let's break this sequence into three sets of 5 alphabets each.

(i) a_b_e_

(ii) _c_b_d

(iii) a_c_e_d

By 2nd and 3rd we can observe that the sequence is a repetition of acbed.

Hence the complete sequence is
acbed/acbed/acbed

Hence, option (c) is correct.

Q7 Text Solution:

Ans: (d)

Explanation:

Given sequence is : ABC_ _AAB_CBA_ _CCB_A_ _CBA

We can observe that the given sequence is repetition of ABCCBA

So the complete sequence

is ABCCBAABCCBAABCCBAABCCBA

To complete the original sequence we need to fill CBCABABC in the blanks.

Hence, option (d) is correct.

Q8 Text Solution:

Ans: (b)

Explanation:

The given series is KAL, KEL, KIL, KOL, ?

We can clearly observe that the first and last letter of every word is same i.e. K and L.

The middle letters are A, E, I and O, which are vowels.

The next vowel is U.

So, the next term of the series is KUL.

Hence, option (b) is correct.

Q9 Text Solution:

Ans: (a)

Explanation:

Logic of the given sequence is:

1st letter: 1 is reduced to the position value according to alphabetical series.

2nd letter: 2 is reduced to the position value according to alphabetical series.

3rd letter: 2 is reduced to the position value according to alphabetical series.

4th letter: 4 is reduced to the position value according to the alphabetical series.

Hence 1st letter of missing term is $D - 1 = C$

2nd letter of missing term is $Q - 2 = O$

3rd letter of missing term is $L - 2 = J$

4th letter of missing term is $U - 4 = Q$

Hence the missing term is COJQ.

Hence, option (a) is correct.

Q10 Text Solution:

Ans: (a)

Explanation:

Given series is: AB_D_BC_A_CD_B_D

We can easily observe that the sequence is a repetition of ABCD.

Hence the complete sequence is:

ABCDABCDABCDABCD

To complete the original sequence we need to fill CADBAC in the blanks.

Hence, option (a) is correct.

