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**BOM Reasoning Sample Paper 2016 PDF Download**



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(1) 120, 99, 80, 63, 48, ?

[A] 35

[B] 38

[C] 39

[D] 40

**Answer : [A]**

**Explanation:**

The pattern is - 21, - 19, - 17, - 15,.....

So, missing term =  $48 - 13 = 35$ .

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(2) 3, 10, 101, ?

[A] 10101

[B] 10201

[C] 10202

[D] 11012

**Answer : [C]**

**Explanation:**

Each term in the series is obtained by adding 1 to the square of the preceding term.

So, missing term =  $(101)^2 + 1 = 10202$ .

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(3) In the series 2, 6, 18, 54, ..... what will be the 8th term ?

[A] 4370

[B] 4374

[C] 7443

[D] 7434

**Answer : [B]**

**Explanation:**

Clearly,  $2 \times 3 = 6$ ,  $6 \times 3 = 18$ ,  $18 \times 3 = 54$ ,.....

So, the series is a G.P. in which  $a = 2$ ,  $r = 3$ .

Therefore 8th term =  $ar^{8-1} = ar^7 = 2 \times 3^7 = (2 \times 2187) = 4374$ .

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(4) 125, 80, 45, 20, ?

[A] 5

[B] 8

[C] 10

[D] 12

**Answer : [A]**

**Explanation:**

The pattern is - 45, - 35, - 25, .....

So, missing term =  $20 - 15 = 5$ .

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(5) 589654237, 89654237, 8965423, 965423, ?

[A] 58965

[B] 65423

[C] 89654

[D] 96542

**Answer : [D]**

**Explanation:**

The digits are removed one by one from the beginning and the end in order alternately so as to obtain the subsequent terms of the series.

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**(6) 6, 13, 25, 51, 101, ?**

[A] 201

[B] 202

[C] 203

[D] 205

**Answer : [C]**

**Explanation:**

The pattern is  $x^2 + 1, x^2 - 1, x^2 + 1, x^2 - 1, \dots$   
So, missing term =  $101 \times 2 + 1 = 203$ .

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**(7) 1, 2, 3, 6, 9, 18, ?, 54**

[A] 18

[B] 27

[C] 36

[D] 81

**Answer : [B]**

**Explanation:**

The pattern is  $x^2, x^{3/2}, x^2, x^{3/2}, x^2, \dots$   
So, missing term =  $18 \times 3/2 = 27$ .

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**(8) Which term of the series 5, 10, 20, 40, ..... is 1280?**

[A] 10th

[B] 9th

[C] 8th

[D] None of these

**Answer : [B]**

**Explanation:**

Clearly,  $5 \times 2 = 10, 10 \times 2 = 20, 20 \times 2 = 40, \dots$

So, the series is a G.P. in which  $a = 5$  and  $r = 2$ .

Let 1280 be the  $n$ th term of the series.

Then,  $5 \times 2^{n-1} = 1280 \Leftrightarrow 2^{n-1} = 256 = 2^8 \Leftrightarrow n - 1 = 8 \Leftrightarrow n = 9$ .

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**(9) 6, 12, 21, ?, 48**

[A] 33

[B] 38

[C] 40

[D] 45

**Answer : [A]**

**Explanation:**

The pattern is + 6, + 9, + 12, + 15, .....  
So, missing term =  $21 + 12 = 33$ .

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**(10) 198, 194, 185, 169, ?**

[A] 92

[B] 112

[C] 136

[D] 144

**Answer : [D]**

**Explanation:**

The pattern is - 4, - 9, - 16,.....i.e. -  $2^2$ , -  $3^2$ , -  $4^2$ ,.....  
So, missing pattern =  $169 - 5^2 = 169 - 25 = 144$ .

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**(11) 3, 4, 7, 7, 13, 13, 21, 22, 31, 34, ?**

[A] 42

[B] 43

[C] 51

[D] 52

**Answer : [B]**

**Explanation:**

The given sequence is a combination of two series :

I. 3, 7, 13, 21, 31, ? and II. 4, 7, 13, 22, 34

The pattern in I is + 4, + 6, + 8, + 10,.....

The pattern in II is + 3, + 6, + 9, + 12,.....

So, missing term =  $31 + 12 = 43$ .

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**(12) 2, 3, 5, 7, 11, ?, 17**

[A] 12

[B] 13

[C] 14

[D] 15

**Answer : [B]**

**Explanation:**

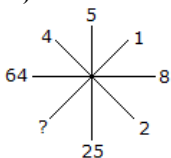
Clearly, the given series consists of prime numbers starting from 2. So, the missing term is the prime number after 11, which is 13.

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**(13) Which one will replace the question mark ?**



- [A] 1  
 [B] 2  
 [C] 3  
 [D] 4

Answer : [A]

Explanation:

$$(2)^2 = 4$$

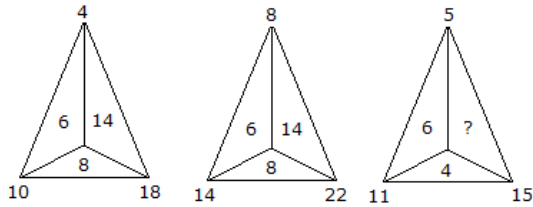
$$(8)^2 = 64$$

$$(5)^2 = 25$$

$$(1)^2 = 1.$$

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(14) Which one will replace the question mark ?



- [A] 8  
 [B] 14  
 [C] 10  
 [D] 6

Answer : [C]

Explanation:

For first triangle,

$$10 - 4 = 6$$

$$18 - 10 = 8$$

$$18 - 4 = 14$$

For second triangle,

$$14 - 8 = 6$$

$$22 - 14 = 8$$

$$22 - 8 = 14$$

For third triangle,

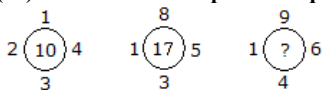
$$11 - 5 = 6$$

$$15 - 11 = 4$$

$$15 - 5 = 10.$$

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(15) Which one will replace the question mark ?



- [A] 18  
 [B] 20  
 [C] 21  
 [D] 19

Answer : [B]

Explanation:

$$1 + 2 + 3 + 4 = 10$$

$$\text{and } 1 + 3 + 5 + 8 = 17$$

$$\text{Similarly, } 1 + 4 + 6 + 9 = 20.$$

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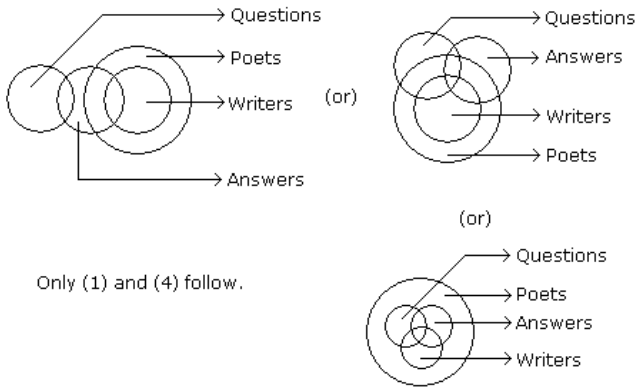
(16) Statements: Some questions are answers. Some answers are writers. All the writers are poets.

Conclusions:

- I. Some writers are answers.
- II. Some poets are questions.
- III. All the questions are poets.
- IV. Some poets are answers.

- [A] Only (1) and (2)
- [B] Only (1) and (4)
- [C] Only (1) and (3)
- [D] Only (2) and (4)

Answer : [B]



Explanation:

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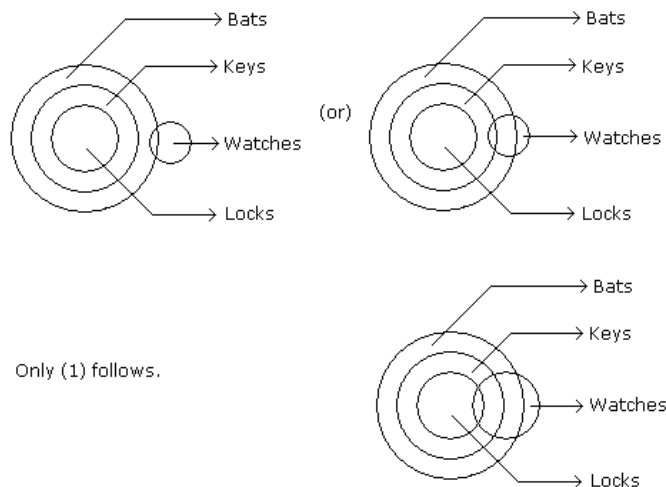
(17) Statements: All the locks are keys. All the keys are bats. Some watches are bats.

Conclusions:

- I. Some bats are locks.
- II. Some watches are keys.
- III. All the keys are locks.

- [A] Only (1) and (2)
- [B] Only (1)
- [C] Only (2)
- [D] Only (1) and (3)

Answer : [B]



Explanation:

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(18) Statements: Some keys are staplers. Some staplers are stickers. All the stickers are pens.

Conclusions:

- I. Some pens are staplers.
- II. Some stickers are keys.
- III. No sticker is key.
- IV. Some staplers are keys.

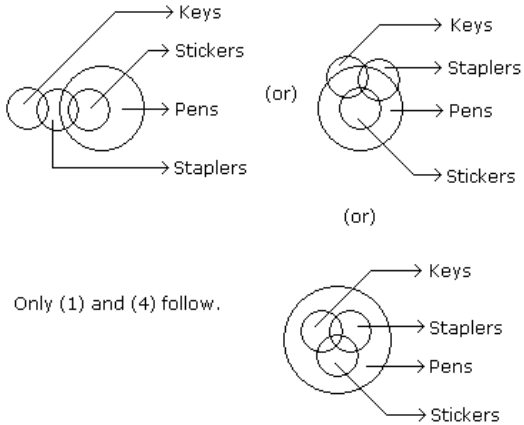
[A] Only (1) and (2)

[B] Only (2) and (4)

[C] Only (2) and (3)

[D] Only (1) and (4) and either (2) or (3)

Answer : [D]



Explanation:

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(19) Statements: All the bottles are boxes. All the boxes are bags. Some bags are trays.

Conclusions:

- I. Some bottles are trays.
- II. Some trays are boxes.
- III. All the bottles are bags.
- IV. Some trays are bags.

[A] Only (3) and (4)

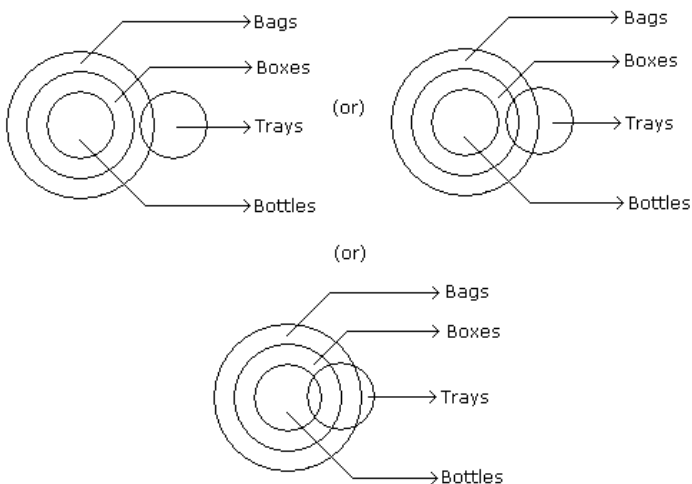
[B] Only (1) and (2)

[C] Only (2) and (3)

[D] Only (1) and (4)

Answer : [A]

Explanation:



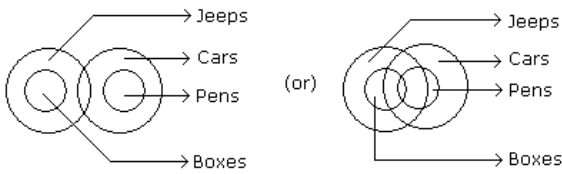
Only (3) and (4) follow.

(20) Statements: Some cars are jeeps. All the boxes are jeeps. All the pens are cars.  
Conclusions:

- I. Some cars are boxes.
- II. No pen is jeep.
- III. Some boxes are cars.

- [A] None of three
- [B] Only (1) and (2)
- [C] Only (1) and (3)
- [D] Only (2) and (3)

Answer : [A]



**Explanation:** None of the three follows.