

# **Reasoning Questions For SSC MTS PDF**

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#### Instructions

For the following questions answer them individually

#### **Question 1**

If 6 # 8 = 10 and 5 # 12 = 13, then 9 # 40 = ?

- **A** 47
- **B** 63
- **C** 41
- **D** 53

Answer: C

# **Explanation:**

The pattern followed is : a #  $b=c\equiv a^2+b^2=c^2$ 

Eg :- 
$$(6)^2 + (8)^2 = 36 + 64 = 100 = (10)^2$$

and 
$$(5)^2 + (12)^2 = 25 + 144 = 169 = (13)^2$$

Similarly, 
$$(9)^2 + (40)^2 = 81 + 1600 = 1681 = (41)^2$$

#### **Question 2**

If "A" denotes "added to", "B" denotes "subtracted from", "C" denotes "multiplied by" and "D" denotes "divided by" then which of the following equation is true?

- **A** 12 A 6 B 3 C 4 D 3 = 14
- **B** 13 B 6 D 3 C 2 A 5 = 12
- **C** 72 D 18 C 14 B 68 A 10 = -4
- **D** 68 D 4 A 6 B 3 C 8 = 0

Answer: A

#### **Explanation:**

(A): 12 A 6 B 3 C 4 D 3 = 14

$$\equiv 12 + 6 - 3 \times 4 \div 3 = 14$$

L.H.S. = 
$$12 + 6 - {3 \times 4 \choose 3}$$

$$= 18 - 4 = 14 = R.H.S.$$

=> Ans - (A)

#### **Question 3**

If " @"denotes "added to", "#" denotes "multiplied by", "@" denotes "divided by" and "%" denotes "subtracted from", then which of the following equation is true?

- **A** 8@8\\(\mathbb{R}\)8#8\\(\mathbb{8}=9\)
- **B** 42%26®13#2@8=46
- C 19%84®4@3#4=12
- **D** 31%4\(\mathbb{R}\)2#19\(\omega\)3=4



#### Answer: B

### **Explanation:**

(A):8@8®8#8%8=9

$$\equiv 8 + 8 \div 8 \times 8 - 8$$

L.H.S. = 
$$8 + 8 - 8 = 8 \neq R.H.S$$
.

(B): 42%26®13#2@8=46

$$\equiv 42 - 26 \div 13 \times 2 + 8$$

L.H.S. = 
$$42 - 4 + 8 = 46 = R.H.S.$$

=> Ans - (B)

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#### Question 4

In a certain code language, "CONGO" is written as "RZPRD" and "TREAT" is written as "UQGWX". How is "PHONE" written in that code language?

- **A** JNQIJ
- **B** KMQHK
- **C** MKQKH
- **D** LLPIL

Answer: B

#### **Explanation:**

"CONGO" is written as "RZPRD" and "TREAT" is written as "UQGWX"

The pattern followed is:





Similarly, for PHONE : KMQHK



=> Ans - (B)

# Question 5

In a certain code language, "RESTED" is written as "SDTSFC". How is "BANNED" written in that code language?

- A CZOMFC
- **B** ABMODE
- **c** czoode
- **D** ABMMFC

Answer: A

**Explanation:** 

Expression: "RESTED" is written as "SDTSFC"

The pattern followed is:

R	Е	S	Т	Е	D			
(+1)	(-1)	(+1)	(-1)	(+1)	(-1)			
S	D	Т	S	F	С			

Similarly, for BANNED : CZOMFC

В	Α	N	N	Е	D
(+1)	(-1)	(+1)	(-1)	(+1)	(-1)
С	Z	0	М	F	С

=> Ans - (A)

#### **Question 6**

In the following question, select the word which connot be formed using the letters of the given word. ENCOURAGING

- **A** GRAIN
- **B** RAGING
- **C** GAUGE
- **D** ENCOURAGE

Answer: D

### **Explanation:**

The word ENCOURAGING does not contain any 'E', thus the term **Encourage** cannot be formed.

=> Ans - (D)

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#### **Question 7**

If 'P 3 Q' means 'Q is daughter of P', 'P 5 Q' means 'Q is son of P', 'P 7 Q' means 'P is sister Q', 'P 9 Q' means 'P is brother of Q'. Which of the following Expression indicates A is nephew of D?

- **A** B 9 D 5 C 5 A
- **B** B 7 D 9 C 5 A
- **C** B7D7C3A
- **D** B7D9C3A

Answer: B

# **Explanation:**

(A): B 9 D 5 C 5 A

B is brother of D and D is son of C.

Also, C is son of A, => A is either grandfather or grandmother of D.

(B): B7D9C5A

B is sister of D and D is brother of C.

Also, A is son of C, => A is nephew of D.

#### **Question 8**

In a row of people, there are 12 people before Q. There are 4 people between P and Q. There are 15 people between Q and S. If there are 8 people between S and R, then how many minimum people are there in the row ?

- **A** 29
- **B** 32
- **C** 36
- **D** 37

#### Answer: A

### **Explanation:**

There are 12 people before Q, => Let us assume Q is at 13th position from left end.

There are 15 people between Q and  $S_7 => S$  is at 29th position.

There are 4 people between P and Q, => P can be either at 8th or 18th position from left.

There are 8 people between S and R, => R is at 20th position.

Thus, there are minimum of 29 people in the row.

#### **Question 9**

In a row of cars, red car is 14th from left and 23rd from right. How many cars are there in the row?

- **A** 36
- **B** 37
- **C** 35
- **D** 34

#### Answer: A

#### **Explanation:**

Red car is 14th from left and 23rd from right

- => Total number of cars =(14+23)-1=36
- => Ans (A)

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#### **Question 10**

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series:

- B, E, I, S, K, ?
- A W
- **B** X
- C U

# **Explanation:**

The letters corresponding to the above series are: B(2), E(5), I(9), S(19), K(11 or 37)

$$2 \times 2 + 1 = 5$$

$$5 \times 2 - 1 = 9$$

$$9 \times 2 + 1 = 19$$

$$19 \times 2 - 1 = 37$$
 (or 11)

$$11\times 2+1=23\equiv W$$

#### **Question 11**

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

- A
- **B** G
- C
- **D** H

#### Answer: D

# **Explanation:**

Consecutive odd numbers are added.

$$B(+5) = G(+7) = N(+9) = W(+11) = H$$

# **Question 12**

Arrange the given words in the sequence in which they occur in the dictionary:

- 1. Habit
- 2. Habitat
- 3. Handle
- 4. Hammer
- 5. Harvest
- **A** 21453
- **B** 12435
- **C** 21435
- **D** 14253

#### Answer: B

#### **Explanation:**

As per the order of dictionary,

- $\equiv 12435$
- => Ans (B)

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# **Question 13**

Arrange the given words in the sequence in which they occur in the dictionary:

- 1. Reputation
- 2. Reptile
- 3. Republic
- 4. Replicate
- 5. Repository
- 42531
- 43251
- 45312
- 45231

Answer: D

### **Explanation:**

As per the order of dictionary,

- = Replicate -> Repository -> Reptile -> Republic -> Reputation
- **=** 45231
- => Ans (D)

#### **Question 14**

In the following question, select the odd number-pair from the alternatives:

- 8-72
- 6-42
- 12-156
- 4-12

Answer: D

#### **Explanation:**

The numbers are of the form :  $n^2$ 

$$(A): (8)^2 + 8 = 72$$

(B): 
$$(6)^2 + 6 = 42$$

(C): 
$$(12)^2 + 12 = 156$$

(D): 
$$(4)^2 + 4 = 20 \neq 12$$

#### **Question 15**

In the following question, select the odd number-pair from the given alternatives:

- 15-45

# **Explanation:**

If we divide the second number by first number, quotient is 3.

(A): 
$$^{45}_{15} = 3$$

(B): 
$${}^{29}_{9} = 3.22$$

(C): 
$$^{93}_{31} = 3$$

(D): 
$$^{123}_{41} = 3$$

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# **Question 16**

In the following question, select the odd letters from the given alternatives

A AEI

B IMQ

C EIL

D MQU

Answer: C

#### **Explanation:**

$$(A) : A (+4) = E (+4) = I$$

(B) : 
$$I(+4) = M(+4) = Q$$

(C) : 
$$E(+4) = I(+3) = L$$

(D) : 
$$M(+4) = Q(+4) = U$$

=> Ans - (C)

#### **Question 17**

In the following question, select the odd letters from the given alternatives:

A GEF

**B** MLK

C IKJ

**D** VWY

Answer: D

#### **Explanation:**

In the first three options, the given combinations are groups of consecutive letters from English alphabetical series, i.e. (EFG), (KLM), (IJK), hence **VWY** is the odd one.

=> Ans - (D)

# **Question 18**

In the following question, select the odd word pari from the given alternatives:

- A Wheat Rabi
- B Rice Rabi
- C Maize Kharif
- **D** Barley Rabi

Answer: B

### **Explanation:**

First is the type of second, Wheat and barley are rabi crops, while rice and maize are kharif crops, hence **Rice - Rabi** is the odd one.

=> Ans - (B)

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#### **Question 19**

In the following question, select the odd word pair from the given alternatives:

- A Speaker Sound
- B Bulb Light
- C Fire Heat
- D Earth Land

Answer: D

#### **Explanation:**

First is the source of second, sound comes from speaker, light from a bulb and fire provides heat, hence **Earth - Land** is the odd one.

=> Ans - (D)

### **Question 20**

In the following question, select the related number from the given alternatives:

36:27::196:?

- **A** 257
- **B** 89
- **C** 173
- **D** 343

Answer: D

### **Explanation:**

Expression = 36 : 27 :: 196 : ?

The pattern followed is =  $(n)^2 : \binom{n}{2}^3$ 

Eg :-  $(6)^2 : {6 \choose 2}^3 = 36 : 27$ 

Similarly,  $(14)^2 = 196$ 

$$=> {14 \choose 2}^3 = (7)^3 = 343$$
  
=> Ans - (D)

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