



SSC MTS 6th August 2019 Shift-2

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Instructions

For the following questions answer them individually

Question 1

Select the most appropriate option to fill in the blank.

A twelve year old boy drowned in a pit up for the coastal road project.

- A digs
- B dug
- C dig
- D digging

Answer: B

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 2

Select the most appropriate synonym of the given word.

Benevolent

- A Cruel
- B Miser
- C Generous
- D Malevolent

Answer: C

Question 3

Choose the correctly spelt word.

- A Lisence
- B Patner
- C Knowledge
- D Neice

Answer: C

Question 4

Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

The 91 year old lady have been a fan of cricket for decades. /No error

- A No error
- B of cricket for decades
- C have been a fan

D The 91 year old lady

Answer: C

SSC Stenographer Previous Papers (Download PDF)

Question 5

Select the most appropriate antonym of the given word.

Jovial

A Hesitant

B Tired

C Cheerful

D Gloomy

Answer: D

Question 6

Select the most appropriate meaning of the given idiom.

Pull up your socks

A To play a joke on someone

B To lose one's temper

C To suspect some foul play

D To put in extra effort

Answer: D

Question 7

Select the most appropriate synonym of the given word.

Harass

A Molest

B Scare

C Comfort

D Assist

Answer: A

SSC GD Constable Previous Papers

Question 8

Select the most appropriate option to fill in the blank.

We cannot quote a price we are allowed to examine the sample.

A because

B whether

C except

D unless

Answer: D

Question 9

Choose the correctly spelt word.

A Thriller

B Ignorance

C Colaborate

D Interupt

Answer: A

Question 10

Select the most appropriate meaning of the given idiom.

Eye wash

A A problem

B A fact

C A deception

D A solution

Answer: C

SSC MTS Previous Papers (DOWNLOAD PDF)

Question 11

Select the most appropriate option to fill in the blank.

She had a bandage round her finger.

A twisted

B bound

C wrapped

D covered

Answer: C

Question 12

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No Improvement.

It is danger to cross the road unmindfully.

A It is dangerous

B No Improvement

- C There is danger
- D It is full of dangerous

Answer: A

Question 13

Choose the most appropriate word that can substitute the given group of words.

A group of Lions

- A Pride
- B Flock
- C Herd
- D Pack

Answer: A

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 14

Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
t would take up few of my time to explain to you the whole case. /No error

- A It would take up
- B explain to you the whole case
- C few of my time to
- D No error

Answer: C

Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Comprehension:

Buffer stock refers to a (1)..... of a commodity that is used to offset price fluctuations (2)..... unforeseen emergencies. Buffer stock is generally (3)..... for essential commodities and necessities like food grains, pulses, etc. The Cabinet Committee (4)..... Economic Affairs (5)..... the minimum buffer stock on a quarterly basis.

Question 15

Select the most appropriate option for blank No. 1.

- A reserve
- B reserved
- C reserves
- D reservation

Answer: A

Question 16

Select the most appropriate option for blank No. 2.

- A even
- B if
- C and
- D also

Answer: C

SSC CGL Free Mock Test (Latest Pattern)

Question 17

Select the most appropriate option for blank No. 3.

- A maintained
- B maintains
- C maintaining
- D maintain

Answer: A

Question 18

Select the most appropriate option for blank No. 4.

- A to
- B for
- C in
- D at

Answer: B

Question 19

Select the most appropriate option for blank No. 5.

- A rules
- B guides
- C forces
- D fixes

Answer: D

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Instructions

For the following questions answer them individually

Question 20

Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

He always stood up for the rights of the oppressed. /No error

- A He always stood up
- B No error
- C for the rights
- D of the oppressed

Answer: B

Question 21

Select the most appropriate antonym of the given word.

Linger

- A Defer
- B Stop
- C Wait
- D Quicken

Answer: D

Question 22

Select the most appropriate option to fill in the blank.

They sat by the river bank with their legs ____ in the water.

- A dangling
- B washing
- C remaining
- D swimming

Answer: A

SSC Stenographer Previous Papers (Latest Pattern)

Question 23

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No Improvement.

You need have brought your umbrella as it is a cloudy day.

- A No Improvement
- B should have
- C could has
- D can have

Answer: B

Question 24

Choose the most appropriate word that can substitute the given group of words.

A person pretending to be somebody he isn't

- A Aristocrat
- B Bureaucrat
- C Conservative
- D Hypocrite

Answer: D

Question 25

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No Improvement.

He made multiple attempts at securing a government job.

- A attempt in
- B attempts through
- C No Improvement
- D attempt for

Answer: C

SSC GD Constable Free Mock Test (Latest Pattern)

Reasoning

Instructions

For the following questions answer them individually

Question 26

In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

- I. All photo are phone.
- II. Some phone are yellow.
- III. No yellow is red.

Conclusions:

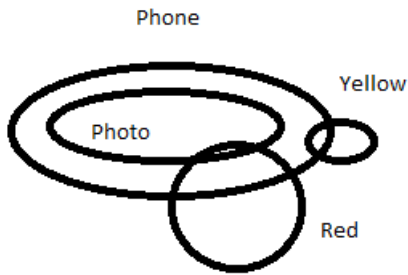
- I. Some red are photo.
- II. Some yellow are phone.
- III. No red is photo.

- A Only conclusion II follows
- B Only conclusion III follows
- C Only conclusion I follows
- D Neither conclusion follow

Answer: A

Explanation:

The relation between photos , phone , yellow and red can be represented by the following venn diagram.



Following are the conclusions given:

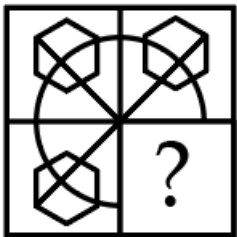
- I. Some red are photo. - This may or mat not be true , so it does not follow.
- II. Some yellow are phone. - True
- III. No red is photo. - This may or mat not be true , so it does not follow.

So, the answer would be option a)Only conclusion II follows.

SSC MTS Free Mock Test (Latest Pattern)

Question 27

Study the given pattern carefully and select the figure that will complete the pattern given in the question figure.



A



B



C



D



Answer: A

Explanation:

In the place of question mark, a curve must be present in such a way that completes the circle and a heptagon must be present in the middle and also a line must be drawn diagonally from the center and must end at one of the heptagon's edge.

There option A can be replaced with the question mark.



Question 28

Five movies K, L, M, N and P (not necessarily in the same order) are displayed from Monday to Friday. Only one movie is displayed on one day. Each movie is displayed only one time. Movie K is displayed on Monday. Two movies are displayed between N and P. L is displayed just one day after P. How many movies are displayed before M?

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

Answer: D

Question 29

In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

- I. All T are P.
- II. Some P are Q.

Conclusions:

- I. Some Q are P.
- II. Some P are T.

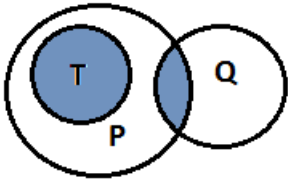
- A Neither conclusion follow
- B Both conclusion I and II follows
- C Only conclusion II follows
- D Only conclusion I follows

Answer: B

Explanation:

Statement:

- I. All T are P.
- II. Some P are Q.



Conclusions:

- I. Some Q are P \rightarrow Some Q are P is true
- II. Some P are T \rightarrow Some P are T is true

Therefore both conclusion I and conclusion II follows.

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Question 30

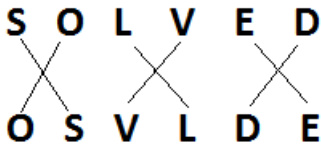
In a certain code language, 'SOLVED' is written as 'OSVLDE'. What is the code for 'CREATE' in that code language?

- A RCTAEE
- B RCAETE
- C RCAEET
- D RCEAET

Answer: C

Explanation:

Pattern followed,



Using this pattern, CREATE can be written as RCAEET

Question 31

By interchanging which two numbers the equation will be correct?

$$9 - 2 \times 4 \div 6 = -3$$

- A 6 and 9
- B 6 and 2
- C 4 and 9
- D 2 and 4

Answer: B

Explanation:

$$9 - 2 \times 4 \div 6 = -3$$

By option (2) 6 and 2, on interchanging we get, $9 - 6 \times 4 \div 2 = -3$

Using BODMAS rule, we get, $9 - 6 \times 2 = -3$

$$9 - 12 = -3$$

$$-3 = -3$$

Hence LHS = RHS.

Hence our answer.

Question 32

In the following question, select the related letter pair from the given alternatives.

TIR : VKT :: ?

A RAP : TCS

B GAR : IYT

C GEM : GO

D LOD : NMF

Answer: C

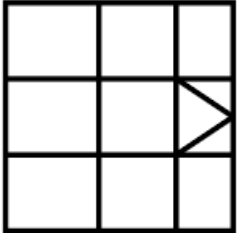
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Question 33

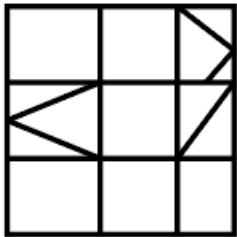
From the given answer figures, select the one in which the question figure is hidden/embedded. (Rotation not allowed)



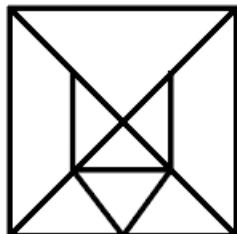
A

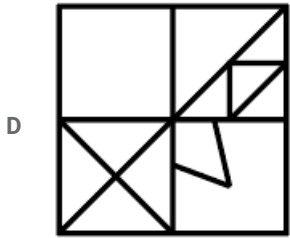


B



C





D

Answer: A

Question 34

Six employees L, N, P, R, T and V are sitting around a circular table facing towards the centre (not necessarily in the same order). V is second to the left of N. L is to the immediate left of P. R is second to the left of P. P is third to the right of N. Who is sitting to the immediate right of V?

A P

B R

C N

D T

Answer: D

Question 35

In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.

6	3	8	20
9	5	1	?
11	4	7	26

A 17

B 20

C 19

D 14

Answer: B

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Question 36

By interchanging which two signs the equation will be correct?

$$19 + 63 \div 7 - 8 \times 12 = 79$$

A $-$ and \times

B \times and $+$

C \div and $-$

D \times and \div

Answer: A

Explanation:

For this question we have to go by option, so when we replace — *and* × as per option A,

$$19 + 63 \div 7 \times 8 - 12 = 79$$

$$19 + \frac{63}{7} \times 8 - 12 = 79$$

$$19 + 9 \times 8 - 12 = 79$$

$$19 + 72 - 12 = 79$$

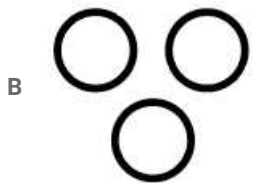
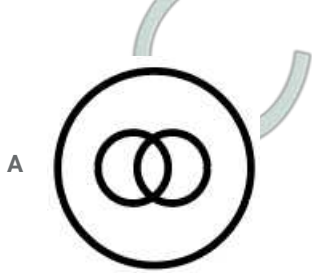
$$79 = 79$$

Therefore option A is the answer.

Question 37

Identify the diagram that best represents the relationship among the given classes.

Lawyer, Profession, Client



Answer: C

Question 38

Select the option that is related to the third number in the same way as the second number is related to the first number.

31 : 54 :: 43 : ?

A 66

B 76

C 64

D 74

Answer: A

Explanation:

Difference between first number and the second number (31 and 54) is 23
So the difference between third number and the fourth number should be 23.
Therefore the answer is 66 (Difference of 43 and 66 is 23).

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Question 39

Select the option in which the words share the same relationship as that shared by the given pair of words.

Food : Chef :: ?

- A Tailor : Clothes
- B Furniture : Wood
- C Farmer : Crop
- D Ornaments : Goldsmith

Answer: D

Explanation:

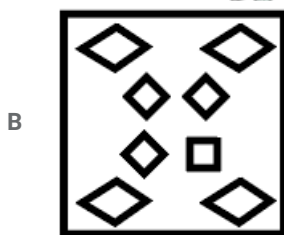
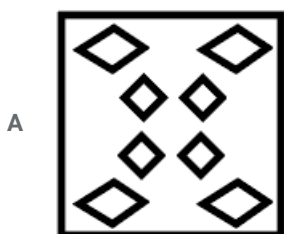
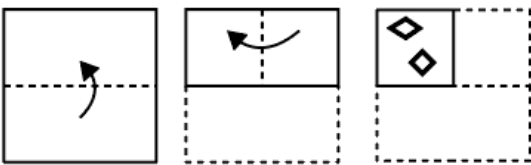
Food is prepared by Chef, in the same way Ornaments are made by Goldsmith.

As food is present first and chef is present second, we have to choose the similar option. (In Tailor:Clothes and Farmer:Crop, Cloth and Crop should have been present first. So it is not the answer.)

Ornaments : Goldsmith is the answer.

Question 40

A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?



C



D



Answer: A

Instructions

Select the number that can replace the question mark (?) in the following series.

Question 41

63, 82, 102, 123, 145, ?

A 159

B 168

C 167

D 178

Answer: B

Explanation:

Pattern is

Difference of 63 and 82 = 19

82 and 102 = 20

102 and 123 = 21

123 and 145 = 22

145 and 168 = 23

therefore the answer is 168

SSC Study Material

Question 42

16, 17, 23, 18, 19, 26, 20, 21, 29, 22, ?, ?

A 32, 23

B 25, 36

C 36, 25

D 23, 32

Answer: D

Instructions

For the following questions answer them individually

Question 43

Select the option that is related to the third term in the same way as the second term is related to the first term.

Brick : Wall :: Gold : ?

- A Jewellery
- B Metal
- C Hard
- D Yellow

Answer: A

Explanation:

Bricks are used to build wall. In the same way Gold is used to make Jewellery. So the answer is jewellery

Question 44

In a certain code language, 'FRAUD' is written as '6181214', 'RING' is written as '189147'. What is the code for 'GLOBE' in that code language?

- A 7121525
- B 7525121
- C 7125125
- D 7131525

Answer: A

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Question 45

In a certain code language, 'LIP' is written as '40', 'GILT' is written as '51'. What is the code for 'ROPE' in that code language?

- A 54
- B 51
- C 57
- D 56

Answer: C

Explanation:

As per English alphabets, for LIP, L=12; I=9; P=16, to the sum of these values add 3.

i.e., $12+9+16 = 37$

$37 + 3 = 40$.

for GILT, G = 7; I = 9; L = 12; T = 20

$7+9+12+20 = 48$

$48 + 3 = 51$

In the same way for ROPE, R = 18; O = 15; P=16; E=5.

$$18+15+16+5 = 54$$

$$54 + 3 = 57.$$

Therefore the answer is 57.

Question 46

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. ROD, XUJ, DAP, JGV, ?

A PMB

B QNC

C QMB

D PNB

Answer: A

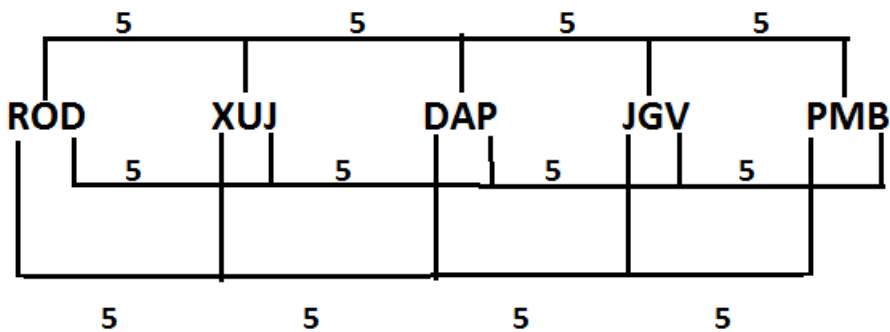
Explanation:

The difference of each word's first letter = 5

The difference of each word's second letter = 5

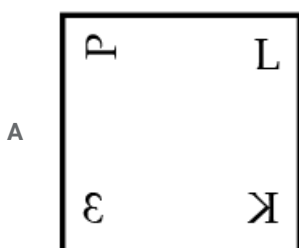
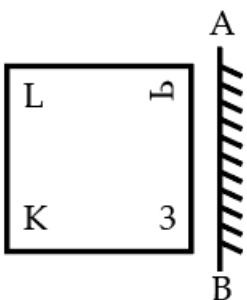
The difference of each word's third letter = 5

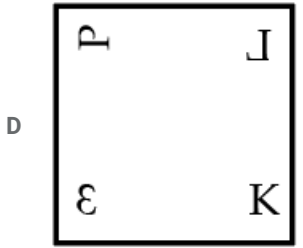
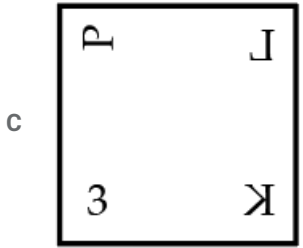
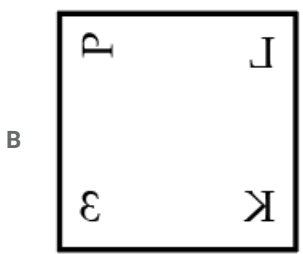
Therefore the next word should be PMB.



Question 47

If a mirror is placed on the line AB, then which of the answer figures is the right image of the given figure?



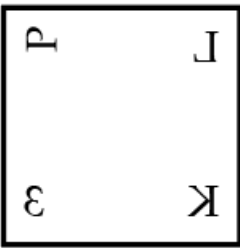


Answer: B

Explanation:

As AB is a mirror, mirror image must contain inverted elements.

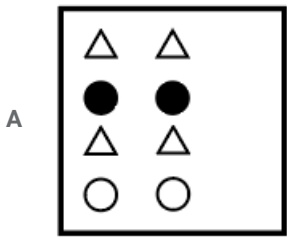
Only in option B all the elements are inverted, so option B is the answer.

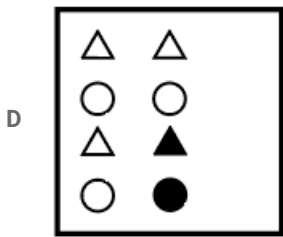
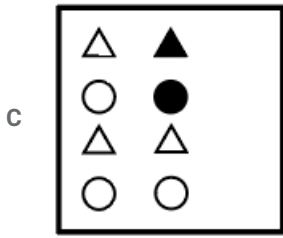
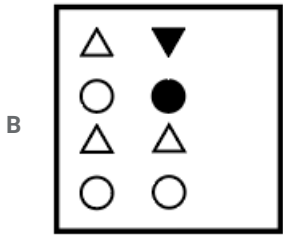


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Question 48

In the following question, select the figure which can be placed at the sign of question mark (?) from the given alternatives.





Answer: C

Explanation:

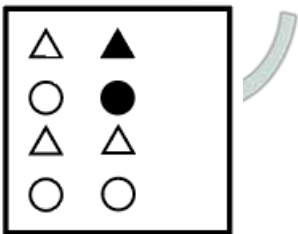
From the first figure it is known that the empty circle and triangle are inserted inside the square.

In second figure, filled circle and triangle are inserted over the empty circle and triangle.

In the third figure, another empty circle and triangle are inserted.

From the fifth diagram we can see that another empty empty circle and triangle must be inserted in the fourth figure.

Therefore option C is the answer.



Question 49

In a certain code language, 'RAPID' is written as 'LUJCX'. What is the code for 'STARE' in that code language?

- A MNULY
- B NOULY
- C MMULY
- D NPULY

Answer: A

Explanation:

letters of the alphabet corresponding to the number (A - 1, B - 2, C - 3, D - 4 X - 24, Y - 25, Z - 26)

18	1	16	9	4
R	A	P	I	D
↓	↓	↓	↓	↓
L	U	J	C	X
12	21	10	3	24

difference between letters between (R,L) is -6 similarly

difference between letters between (A,U), (P,J), (I,C) and (D,X) is -6

{ if we get answer in negative integer add 26 to it to get the letter for example $A = 1 - 6 = -5$

$-5 + 26 = 21$ (U)}

following the pattern

19	20	1	18	5
S	T	A	R	E
↓	↓	↓	↓	↓
M	N	U	L	Y
13	14	21	12	25

Question 50

Six doctors E, G, I, K, M and O are standing in a row facing towards north (Not necessarily in the same order). M is standing to the immediate right of E. K is standing second to the right of O. Two doctors are standing between I and M. K is towards the left of G. Who is standing to the immediate right of K?

- A I
- B E
- C M
- D G

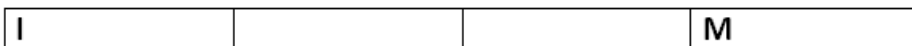
Answer: B

Explanation:

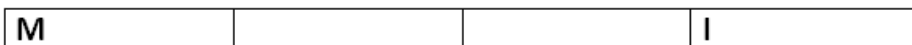
using the statement

Two doctors are standing between I and M

Case1



Case 2



M is standing to the immediate right of E

Case1

I		E	M
---	--	---	---

Case 2

E	M			I
---	---	--	--	---

now using

K is standing second to the right of O.

K is towards the left of G

case 2 is cancelled as it is not possible to fit k left to G as well as K standing second to right of O

so left with only case 1

Case1

O	I	K	E	M	G
---	---	---	---	---	---

E is standing to the immediate right of K

SSC GK Questions

Quant

Instructions

For the following questions answer them individually

Question 51

26% of A = 832. What is the value of 31% of A?

- A 968
- B 992
- C 876
- D 854

Answer: B

Explanation:

$$\frac{26}{100} \times A = 832 \text{ we get } A = 832 \times \left(\frac{100}{26}\right) = 3200$$

$$\text{now } 31\% \text{ of } A = \frac{31}{100} \times 3200 = 992$$

alternatively,

it can be done using digital sum without out simplification

How to take out digital sum ? The digital sum of a number is the sum of the digits of the number till we get a single digit. For example let us take a number

567892, the digital sum of this number is 5+6+7+8+9+2 = 37 now 3+7 =10 again 1+0 =1 so the digital sum of 567892 is 1

In the given question

$$A = 832 \times \left(\frac{100}{26}\right)$$

$$31\% \text{ of } A = \frac{31}{100} \times 832 \times \frac{100}{26} = \frac{31}{26} \times 832$$

calculating digital sum of 31 is $3+1 = 4$, 26 is $2+6 = 8$ and 832 is $8+3+2 = 13$ again adding the digits we get $(1+3) = 4$

using the digital sum of the numbers as shown below

$$31\% \text{ of } A = \frac{31}{100} \times 832 \times \frac{100}{26} = \frac{31}{26} \times 832 \text{ we get } \frac{4}{8} \times 4 = 2$$

now to check for the answers we have to take out digital sum for all the options

option A 968 digital sum is $9+6+8 = 23$ again $2+3 = 5$ (doesn't match the answer we got so incorrect)

option C 876 digital sum is $8+7+6 = 21$ again $2+1 = 3$ (incorrect)

option D 854 digital sum is $8+5+4 = 17$ again $1+7 = 8$ (incorrect)

option B 992 digital sum is $9+9+2 = 20$ again $2+0 = 2$ (it matches the answer we got so it is correct)

This technique of digital sum might not always work for example when you have 2 or 3 options with same digital sum

Current Affairs Question and Answers (Download PDF)

Question 52

If $X : Y : Z = 1 : 2 : 3$ and, $X^2 + Y^2 + Z^2 = 224$, then what is the value of $X + Y + Z$?

A 24

B 48

C 36

D 32

Answer: A

Explanation:

$$X : Y : Z = 1 : 2 : 3$$

$$\text{let } X = a, Y = 2a, Z = 3a$$

$$\text{now } X^2 + Y^2 + Z^2 = 224 = (a)^2 + (2a)^2 + (3a)^2 = 224$$

$$a^2 + 4a^2 + 9a^2 = 224$$

$$14a^2 = 224, a^2 = \frac{224}{14}, a^2 = 16$$

$$a = 4$$

$$X + Y + Z = a + 2a + 3a = 6a = 6 \times 4 = 24$$

Question 53

The data given below shows the marks obtained by various students.

Marks	Number of students
10-12	6
12-14	8
14-16	5
16-18	7
18-20	4

What is the mean marks (Correct up to two decimal places) of given data?

A 13.33

B 14.67

C 13.67

D 15.33

Answer: B

Explanation:

To find the mean of the class interval, mid point of class interval of marks is obtained as shown in the table

Then product of marks and no of students is obtained

Marks(<u>mid point</u>)	No of students	Marks x No of students
11	6	66
13	8	104
15	5	75
17	7	119
19	4	76

Total number of students = 30

$$\sum(\text{marks} \times \text{no of students}) = 66+104+75+119+76 = 440$$

$$\text{mean} = \frac{\sum(\text{marks} \times \text{no. students})}{\text{total students}} = \frac{440}{30}$$

= 14.67

Question 54

What is the value of $(3 \times 4 \text{ of } 12 \div 2) \div 9 \times 4 + 4 \div 8 + 3 \times 2$?

A $\frac{37}{2}$

B $\frac{77}{2}$

C $\frac{89}{3}$

D $\frac{94}{3}$

Answer: B

Explanation:

using the BODMAS rule { priority brackets > of > division > multiplication > addition > subtraction }

solving the bracket first (1st priority brackets)

$(3 \times 4 \text{ of } 12 \div 2)$, now since 'of' is the priority hence it should be solved first

simplifying it we get

$$(3 \times 4 \times 12 \div 2) \text{ (here 4 of 12 is } 4 \times 12) = (3 \times 4 \times 6)$$

substituting in original question we get

$$(3 \times 4 \times 6) \div 9 \times 4 + 4 \div 8 + 3 \times 2$$

simplifying it further we get

$$\frac{(3 \times 4 \times 6)}{9} \times 4 + \frac{4}{8} + 3 \times 2$$

$$= 32 + 2 + 6 = \frac{77}{2}$$

Daily and Monthly Current Affairs (Download PDF)

Question 55

What is the average of 59, 63, 68, 77, 74 and 73, when each number is divided by 23?

- A $\frac{67}{23}$
- B 46
- C 3
- D $\frac{63}{23}$

Answer: C

Explanation:

let average of a, b, c, d, e = x

then average of $\frac{a}{k}, \frac{b}{k}, \frac{c}{k}, \frac{d}{k}, \frac{e}{k} = \frac{x}{k}$

average of 59, 63, 68, 77, 74 and 73

$$\frac{59+63+68+77+74+73}{6} = \frac{414}{6} = 69$$

average of 59, 63, 68, 77, 74 and 73 when each number is divided by 23 = $\frac{69}{23} = 3$

Question 56

Five technicians of a Studio A can do a work in 30 days. Eight technicians of a Studio B can do the same work in 15 days. In how many days can one technician of Studio A and one technician of Studio B, together do the same work ?

- A $\frac{220}{9}$
- B $\frac{250}{9}$
- C $\frac{190}{3}$
- D $\frac{200}{3}$

Answer: D

Explanation:

if x and y are no of days taken by A and B respectively then

$$\text{work done by A and B} = \frac{1}{x} + \frac{1}{y}$$

$$\text{total time taken} = \frac{x+y}{xy}$$

$$\text{work done by 1 technician of studio A in 1 day} = \frac{1}{30 \times 5}$$

$$\text{work done by 1 technician of studio B in 1 day} = \frac{1}{15 \times 8}$$

$$\text{time taken to complete the work together} = \frac{1}{30 \times 5} + \frac{1}{15 \times 8} = \frac{200}{3}$$

Question 57

The proportion of students in three classes is 3 : 4 : 5. If the number of students is increased by 20 in each class, then the proportion changes to 4 : 5 : 6. What is the initial number of students in the three classes taken together?

- A 240
- B 300
- C 280

D 320

Answer: A

Explanation:

The proportion of students in three classes is 3 : 4 : 5.

let the number of students be $3x, 4x, 5x$

now 20 students increased in each class

so $3x+20 : 4x+20 : 5x+20$ is 4:5:6

$$\text{now } \frac{3x+20}{4x+20} = \frac{4}{5}$$

we get $15x+100 = 16x + 80$

$x = 20$

initial number of students in 3 class taken together is $3x+4x+5x = 12x = 12 \times 20 = 240$

alternatively

initial proportion of the three class is 3: 4: 5

final proportion of the three class is 4: 5: 6

observing the change of 1 unit from initial to final that is ($4-3 = 1, 5-4 = 1, 6-5 = 1$) the change has come due to increase in number of students in each section which is equal to 20

hence 1 unit = 20

now initial number of students taken from 3 class together = $3+4+5 = 12$ units

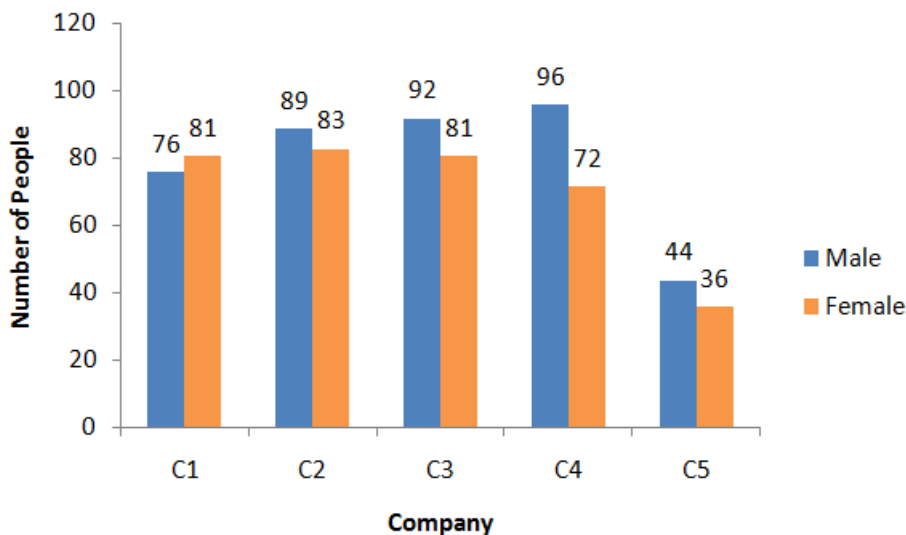
we know 1 unit = 20

therefore 12 units = $12 \times 20 = 240$

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 58

The Bar graph given below presents the number of males and females working in five different companies.



What is the ratio of the total number of males working in the Companies C2 and C3 to the total number of females working in C1 and C5?

A 181 : 117

B 171 : 136

C 182 : 119

D 183 : 124

Answer: A

Explanation:

From the given Bar graph (blue bar depicts number of males working in the respective company and orange bar depicts the number of females working in the respective company)

we observe that

no of males working in company C2 = 89

no of males working in company C3 = 92

total no of males working companies in C2 and C3 = $89 + 92 = 181$

no of females working in company C1 = 81

no of females working in company C5 = 36

total number of females working in C1 and C5 = $81 + 36 = 117$

total number of males working in C2 and C3 : total number of females working in C1 and C5 = 181:117

Question 59

The cost price of an article 1 is six times of the profit earned by selling it at SP1. Cost price of article 2 is three times the loss incurred by selling it at SP2. If the cost prices of the articles are the same, then what is the ratio of SP1 and SP2?

A 7 : 4

B 6 : 5

C 7 : 5

D 4 : 3

Answer: A

Explanation:

In the question given Cost price of article 1 and Cost price of article 2 are same

let the cost price of both the article be CP

cost price of article 1 is 6 times profit earned by selling article at SP1

that is $CP = 6 \times \text{profit}$

we know the formula $SP = CP + \text{profit}$ therefore $\text{profit} = SP - CP$

now $\text{profit} = SP1 - CP$

$$CP = 6 \times (SP1 - CP)$$

$$CP = 6SP1 - 6CP = 6SP1 = 7CP$$

$$SP1 = \frac{7}{6} CP$$

cost price of article 2 is 3 times loss occurred by selling article at SP2

that is $CP = 3 \times \text{loss}$

we know that $SP = CP - \text{loss}$ therefore $\text{loss} = CP - SP$

$$CP = 3 \times (CP - SP2)$$

$$CP = 3CP - 3SP2 = 3SP2 = 2CP$$

$$SP2 = \frac{2}{3} CP$$

$$\frac{SP1}{SP2} = \frac{\frac{7}{6} CP}{\frac{2}{3} CP} = \frac{7}{4}$$

hence SP1:SP2 is 7:4

Question 60

If profit is 20% of the selling price, then profit is what percent of the cost price?

- A 25%
- B 22.5%
- C 20%
- D 15%

Answer: A

Explanation:

let the **SP(selling price)** of the item be Rs 100

profit is 20% of SP, so $\frac{20}{100} \times SP$ here SP=100

profit = $\frac{20}{100} \times 100 = 20$ therefore we get Rs 20 as profit

Now we know **SP = CP + Profit**, substituting the values of SP and Profit we get **CP(cost price)**

$$CP = SP - \text{profit}$$

$$CP = 100 - 20 = 80$$

profit as a percent of CP is $\frac{\text{profit}}{CP} \times 100$

$$\frac{20}{80} \times 100 = 25\%$$

SSC Stenographer Previous Papers (Download PDF)

Question 61

If $A = 8 \div 4 \times (3 - 1) + 6 \times 3 \div 2$ of 3 and $B = 4 \div 8 \times 2 + 7 \times 3$, then what is the value of $A + B$?

- A 33
- B 29
- C 31
- D 35

Answer: B

Explanation:

Applying the BODMAS { priority brackets > of > division > multiplication > addition > subtraction }

To solve A, first solve the subtraction in the brackets i.e $(3-1) = 2$

simplifying A, we get

$$A = 8 \div 4 \times 2 + 6 \times 3 \div 2 \text{ of } 3 = \frac{8}{4} \times 2 + \frac{6 \times 3}{2} \text{ (here 2 of 3 is } 2 \times 3 = 6)$$

$$A = 7$$

similarly applying BODMAS we solve for B

$$B = 4 \div 8 \times 2 + 7 \times 3 = B = \frac{4}{8} \times 2 + 7 \times 3 = 22$$

$$B = 22$$

$$A+B = 7+22 = 29$$

Question 62

If ₹1000 is invested for two years at simple interest at the rate of 12.5% per annum, then what is the amount?

- A ₹1250
- B ₹1275
- C ₹1125
- D ₹1325

Answer: A

Explanation:

we know that Simple interest

$SI = \frac{P \times R \times T}{100}$ where P is the principle, R is rate of interest and T is time period

In the given question

P= 1000

T = 2 years

R = 12.5% per annum substituting the values

$$SI = \frac{1000 \times 12.5 \times 2}{100} = 250$$

Amount = P + SI = 1000 + 250 = 1250

Question 63

What is the greatest number which when divides 460, 491 and 553, leave 26 as remainder in each case?

- A 33
- B 27
- C 35
- D 31

Answer: D

Explanation:

Subtract each number by 26

so we get

$$460 - 26 = 434$$

$$491 - 26 = 465$$

$$553 - 26 = 527$$

now taking HCF (434, 465, 527) = 31 (since 31 divides all the 3 numbers)

SSC GD Constable Previous Papers

Question 64

Average of a and b is 36. Average of b and c is 42. What is the difference between c and a?

- A 12
- B 16
- C 14
- D 18

Answer: A

Explanation:

average of a and b is 36

$$\frac{a+b}{2} = 36$$

$$a + b = 36 \times 2 = 72 \text{ -----> equation 1}$$

average of b and c is 42

$$\frac{b+c}{2} = 42$$

$$b + c = 42 \times 2 = 84 \text{ -----> equation 2}$$

subtracting equation 2 from equation 1

$$(b + c) - (a + b) = c - a = 84 - 72 = 12$$

$$c - a = 12$$

Question 65

The marked price of an article is ₹2800. The selling price of the article is ₹2408. What is the discount percentage?

- A 24%
- B 18%
- C 14%
- D 16%

Answer: C

Explanation:

marked price (MP) = 2800

selling price (SP) = 2408

$$\text{discount} = \text{MP} - \text{SP} = 2800 - 2408 = 392$$

$$\text{discount \%} = \frac{\text{discount}}{\text{MP}} \times 100 = \frac{392}{2800} \times 100 = 14\%$$

Question 66

A person goes from A to B with a speed of 30 km/h. He comes back from B to A with a speed of 20 km/h. What is his average speed for the entire journey?

- A 27.5 km/h
- B 25 km/h
- C 24 km/h
- D 26.5 km/h

Answer: C

Explanation:

let us take the distance between A and B as LCM(30, 20) which is 60 km

now speed of the person to travel A to B = 30 km/hr

$$\text{Time taken to travel from A to B} = \frac{\text{distance}}{\text{speed}} = \frac{60}{30} = 2 \text{ hrs}$$

now speed of the person to travel B to A = 20 km/hr

$$\text{Time taken to travel from B to A} = \frac{\text{distance}}{\text{speed}} = \frac{60}{20} = 3 \text{ hrs}$$

average speed of the entire journey = $\frac{\text{total distance}}{\text{total time taken}}$

total distance = 60 + 60 = 120 (A to B and then from B to A)

total time = 5 hrs

average speed for the entire journey = $\frac{120}{5} = 24$ km/hr

SSC MTS Previous Papers (DOWNLOAD PDF)

Question 67

What is the total surface area and the curved surface area of a solid hemisphere of radius 14 cm?

- A $924 \text{ cm}^2, 616 \text{ cm}^2$
- B $5544 \text{ cm}^2, 1848 \text{ cm}^2$
- C $1848 \text{ cm}^2, 1232 \text{ cm}^2$
- D $2772 \text{ cm}^2, 1848 \text{ cm}^2$

Answer: C

Explanation:

we know that

total surface area of a solid hemisphere = $3\pi r^2$ (radius $r = 14$ cm)

$$= 3 \times \pi \times 14 \times 14 = 3 \times \frac{22}{7} \times 14 \times 14 = 1848 \text{ cm}^2$$

curved surface area of a solid hemisphere = $2\pi r^2$ (radius $r = 14$ cm)

$$= 2 \times \pi \times 14 \times 14 = 2 \times \frac{22}{7} \times 14 \times 14 = 1232 \text{ cm}^2$$

Question 68

A alone can do a work in 20 days. A and B together can do the same work in 15 days. B and C together can do the same work in 75 days. What is the ratio of the efficiency of A, B and in terms of doing the work?

75
2

- A 5 : 3 : 1
- B 5 : 4 : 3
- C 15 : 5 : 3
- D 10 : 4 : 1

Answer: C

Explanation:

if x and y are no of days taken by A and B respectively then

$$\text{work done by A and B} = \frac{1}{x} + \frac{1}{y}$$

$$\text{total time taken} = \frac{x+y}{xy}$$

$$\text{work done by A in 1 day} = \frac{1}{20}$$

$$\text{work done by A and B in 1 day} = \frac{1}{15}$$

$$\text{work done by B in 1 day} = \frac{1}{15} - \frac{1}{20} = \frac{1}{60}$$

$$\text{work done by B and C in 1 day} = \frac{2}{75}$$

work done by C in 1 day = $\frac{2}{75} - \frac{1}{60} = \frac{1}{100}$

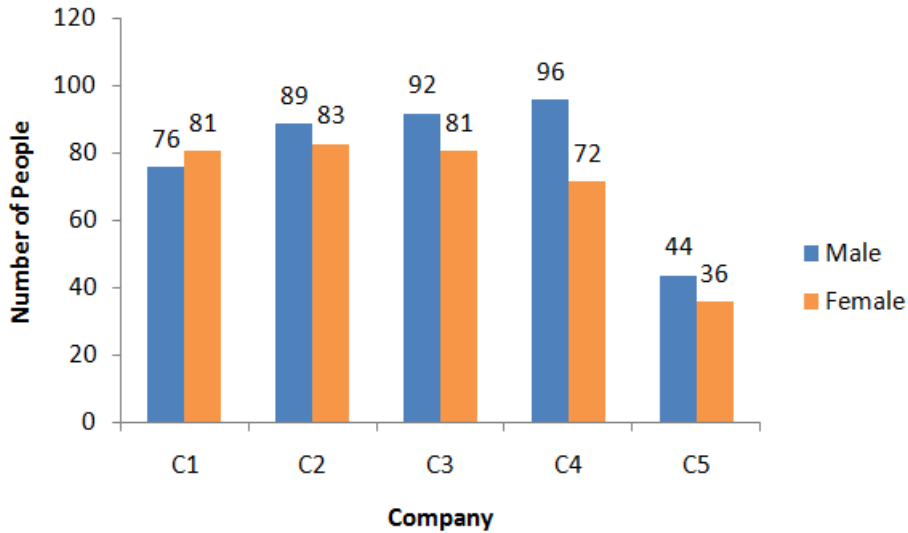
ratio of efficiencies A : B : C is ratio of work done by A:B:C

$\frac{1}{20} : \frac{1}{60} : \frac{1}{100}$

15 : 5 : 3

Question 69

The Bar graph given below presents the number of males and females working in five different companies.



The total number of males working in these five companies is how much percent (approximately) more than the total number of females working in these five companies?

- A 8.52%
- B 9.67%
- C 12.46%
- D 14.67%

Answer: C

Explanation:

total number of males working in companies C1+C2+C3+C4+C5 = 76+89+92+96+44 = 397

total number of females working in companies C1+C2+C3+C4+C5 = 81+83+81+72+36 = 353

% of total no of males more than total number of females = $\frac{397-353}{353} \times 100 = 12.46\%$

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 70

The sum of two numbers is 77 and their ratio is 6 : 5. What is their difference?

- A 6
- B 4
- C 5
- D 7

Answer: D

Explanation:

let the numbers be $6x$ and $5x$

sum of the numbers is $6x+5x = 11x$

$11x = 77$ therefore $x = 7$

difference of the numbers is $6x - 5x = x = 7$

alternatively

ratio of two numbers given is 6:5

sum of the numbers is $6+5 = 11$ units

now 11 units is 77

1 unit = 7

difference between the numbers is $6 - 5 = 1$ unit = 7

Question 71

side of a hexagon is 4 cm. Side of a square is $4\sqrt{2}$ cm. What is the ratio of their areas?

A $3\sqrt{3} : 2$

B $\frac{\sqrt{3}}{2} : 1$

C $3\sqrt{3} : 4$

D $2\sqrt{3} : 1$

Answer: C

Explanation:

Area of hexagon = $6 \times \frac{\sqrt{3}}{4} \times a^2$

Area of a square = s^2

area of hexagon : area of square

$6 \times \frac{\sqrt{3}}{4} \times 4^2 : 4\sqrt{2} \times 4\sqrt{2}$

$3\sqrt{3} : 4$

Question 72

The radius of a right circular cylinder is 7 cm. Its height is twice its radius. What is the curved surface area of the cylinder? (Take $\pi = \frac{22}{7}$)

A 896 cm^2

B 476 cm^2

C 616 cm^2

D 1232 cm^2

Answer: C

Explanation:

radius $r = 7$ cm

height $h = 2r = 14$ cm

curved surface area of cylinder = $2\pi rh = 2 \times \frac{22}{7} \times 7 \times 14 = 616 \text{ cm}^2$

SSC CGL Free Mock Test (Latest Pattern)

Question 73

A train crosses a stationary pole in 3 minutes. It crosses a 600 meter long platform in 5 minutes. What are the length and the speed of the train?

- A 1200 m, 15 km/h
- B 900 m, 15 km/h
- C 3600 m, 18 km/h
- D 900 m, 18 km/h

Answer: D

Explanation:

let the length of the train be x meters

$$\text{speed of the train} = \frac{\text{train length}}{\text{time taken}} = \frac{x}{3}$$

$$\text{speed of the train when train crosses the platform} = \frac{\text{train length} + \text{platform length}}{\text{time taken}} = \frac{x+600}{5}$$

equating both (\because speed of the train is same)

$$\frac{x}{3} = \frac{x+600}{5}$$

$$5x = 3x + 1800$$

$$2x = 1800, x = 900 \text{ meters}$$

$$\text{speed of the train} = \frac{x}{3} \text{ (substituting value of x)}$$

$$\frac{900}{3 \times 60} = 5 \text{ m/s } (\because 1 \text{ minute} = 60 \text{ seconds})$$

converting it into km/h

$$5 \times \frac{18}{5} = 18 \text{ km/h}$$

Question 74

If ₹ 12000 is invested for two years at compound interest (compounded annually) at the rate of 20% per annum, then what is the interest?

- A ₹5640
- B ₹4280
- C ₹4800
- D ₹5280

Answer: D

Explanation:

principal p = 12000

rate of interest R = 20%

1st year interest = 20% of 12000 = 2400

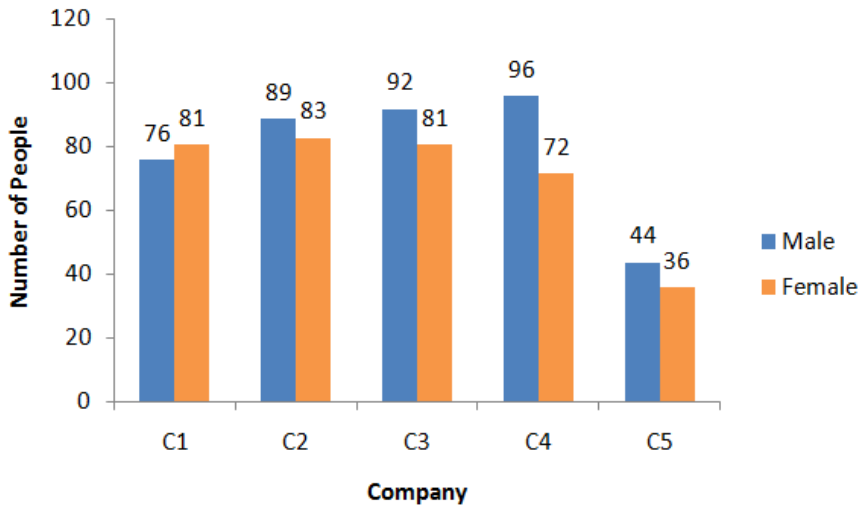
2nd year interest = 20% of 12000 + 20% of 2400 (20% on interest earned in 1st year)

$$2400 + 480 = 2880$$

$$\text{total interest after 2 years} = 2400 + 2880 = 5280$$

Question 75

The Bar graph given below presents the number of males and females working in five different companies.



What is the average number of females working per company?

- A 74.6
- B 72.2
- C 71.8
- D 70.6

Answer: D

Explanation:

From the bar graph

number of females working in the companies {C1=81, C2=83, C3=81, C4 = 72, C5= 36}

total number of females working in the companies = 81+83+81+72+36 = 353

average no of females working in the companies = $\frac{353}{5} = 70.6$

SSC CHSL Free Mock Test (Latest Pattern)

General knowledge

Instructions

For the following questions answer them individually

Question 76

Who of the following Indians has NOT been awarded with the Noble Prize?

- A Rabindranath Tagore
- B Kailash Satyarthi
- C Hargobind Khorana
- D Mahatma Gandhi

Answer: D

Question 77

Nationalist Congress Party was formed in which year?

- A 1992
- B 1999
- C 1980
- D 1984

Answer: B

Question 78

Who is the Leader of the House in the Seventeenth Lok Sabha?

- A Sushil Kumar Shinde
- B Amit Shah
- C Narendra Modi
- D Rajnath Singh

Answer: C

Question 79

Our national anthem 'Jana Gana Mana' has been adopted from which language?

- A Marathi
- B Assamese
- C Hindi
- D Bengali

Answer: D

SSC GD Constable Free Mock Test (Latest Pattern)

Question 80

Mohenjo-daro lies on bank of which river?

- A Ravi
- B Indus
- C Ghaggar
- D Saraswati

Answer: B

Question 81

15th Finance commission is headed by:

- A Amitabh Kant
- B NK Singh
- C Y V Reddy
- D Urjit Patel

Answer: B

Question 82

Which among the following states has the longest coastline?

- A Goa
- B Andhra Pradesh
- C Tamil Nadu
- D Maharashtra

Answer: B

SSC MTS Free Mock Test (Latest Pattern)

Question 83

What is the symbol of gold?

- A Hg
- B Ag
- C Au
- D Mg

Answer: C

Question 84

Who of the following personalities is known as 'Loknayak'?

- A Rajiv Gandhi
- B Atal Bihari Vajpayee
- C A. P. J. Abdul Kalam
- D Jayaprakash Narayan

Answer: D

Question 85

In July 2019, which of the following cities inscribed on UNESCO's World Heritage List?

- A Orchha
- B Hyderabad

C Ahmedabad

D Jaipur

Answer: D

SSC CPO Free Mock Test (Latest Pattern)

Question 86

Who among the following was the youngest person to receive a Nobel Prize?

A Marie Curie

B William Lawrence Bragg

C Kenneth Arrow

D James Watson

Answer: B

Question 87

Which among the following is NOT a metal?

A copper

B selenium

C iron

D tin

Answer: B

Question 88

World Aids Day is celebrated on:

A 8th March

B 1st December

C 5th June

D 1st November

Answer: B

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Question 89

With reference to the Hindu Mythology, which of the following is NOT a part of ten incarnations of Lord Vishnu?

A Garuda

B Varaha

C Matsya

D Kurma

Answer: A

Question 90

The branch of medical science that deals with kidneys is known as:

A Nephrology

B Ophthalmology

C Cardiology

D Otorhinolaryngology

Answer: A

Question 91

Which part of the Constitution deals with amendments of the Constitution?

A Part X

B Part XV

C Part VIII

D Part XX

Answer: D

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Question 92

Five year plan was introduced in India in which year?

A 1951

B 1947

C 1955

D 1958

Answer: A

Question 93

Which of the following is NOT a scheduled language of India?

A Manipuri

B Sindhi

C Bodo

D Rajasthani

Answer: D

Question 94

Which of the following pairs is correct?

- A Keoladeo Ghana National Park-Assam
- B Gir National Park-Maharashtra
- C Nandadevi National Park-Uttar Pradesh
- D Great Himalyan National Park-Himachal Pradesh

Answer: D

SSC Exam Free Videos (Youtube)

Question 95

Dronacharya award is associated with

- A Dance
- B Sports
- C Music
- D Education

Answer: B

Question 96

Which organization publishes 'World Development Report'?

- A International Monetary Fund (IMF)
- B United Nations Development Programme (UNDP)
- C World Bank
- D World Economic Forum

Answer: C

Question 97

Which of the following countries does NOT share border with India?

- A Myanmar
- B Bangladesh
- C Nepal
- D Iran

Answer: D

SSC Study Material

Question 98

Which of the following text is referred as 'Vedanta'?

- A Brahmanas
- B Upanishads
- C Aranyakas
- D Vedangas

Answer: B

Question 99

Michael Phelps, the celebrated swimmer belongs to

- A Australia
- B Switzerland
- C America
- D Norway

Answer: C

Question 100

Which award is often referred to as the 'Nobel Prize of architecture'?

- A Abel prize
- B Pritzker prize
- C Ramon Magsaysay
- D Jawaharlal Nehru prize

Answer: B

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