



SSC GD 6th March 2019 Shift-3

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Reasoning

Instructions

For the following questions answer them individually

Question 1

The statements below are followed by conclusions labeled I, II and III. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

Some women are weaks.

Some weaks are female.

All female are iron.

All iron are gold.

Conclusions:

I. Some weaks are iron.

II. Some gold are weaks.

III. Some women are female.

A All I, II and III follow

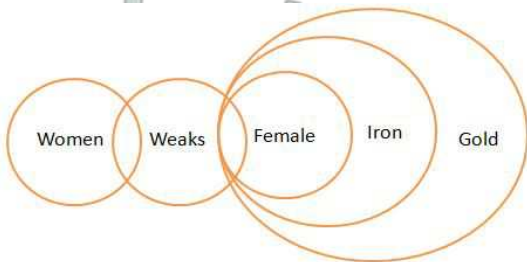
B Only II and III follow

C Only I and III follow

D Only I and II follow

Answer: D

Explanation:



Conclusions:

I. Some weaks are iron- True

II. Some gold are weaks- True.

III. Some women are female- False

Only Conclusion I and II follows.

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Question 2

Four options have been given out of which three are alike in some manner, while one is different. Choose the odd one.

A 125

B 75

C 729

D 1331

Answer: B

Explanation:

$$5^3 = 125$$

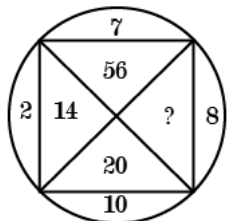
$$9^3 = 729$$

$$11^3 = 1331$$

But 75 is not a perfect cube. Hence Option B is odd.

Question 3

Find the missing number from the below options.



A 80

B 70

C 140

D 77

Answer: A

Explanation:

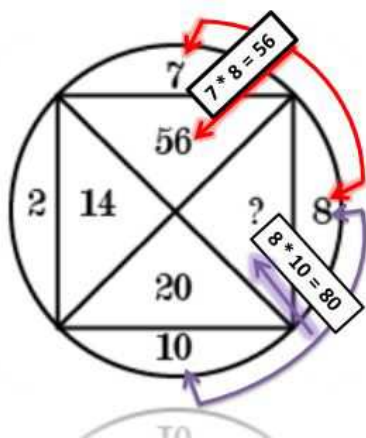
Multiply the values near to circle boundary to get value of side the square. Please see diagram.

$$7 \times 2 = 14,$$

$$2 \times 10 = 20,$$

$$10 \times 8 = 80$$

Answer is 80



Question 4

Select the correct option that will fill in the blank and complete the series.

21, 43, 85, 171, 341,

A 683

B 675

C 684

D 680

Answer: A

Explanation:

Logic of Question is..

$$21 - 43 = 22 \text{ (previous number } 21 + 1 = 22)$$

$$43 - 85 = 42 \text{ (previous number } 43 - 1 = 42)$$

$$85 - 171 = 86 \text{ (previous number } 85 + 1 = 86)$$

$$171 - 341 = 170 \text{ (previous number } 171 - 1 = 170)$$

Hence, $341 + 1 = 342$

$$342 + 341 = 683$$

SSC GD Important Questions and Answers PDF

Question 5

Four words have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A Robbery
- B Snobbery
- C Larceny
- D Burglary

Answer: B

Explanation:

Robbery, Larceny, Burglary are same form of group related to thief.

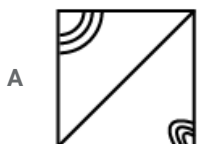
But Snobbery does not form to group meaning of Snobbery="someone who doesn't have a degree from a fancy university,".

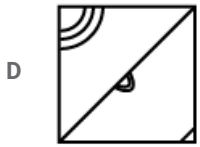
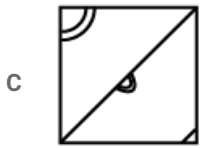
Hence Snobbery is odd one out.

Question 6

Which of the following answer figure will complete the given figure?

Question Figure:





Answer: D

Explanation:

The missing part of figure should form a complete square in missing figure. Hence Option D is Correct Option.



Question 7

Four letter clusters have been given out of which three are alike in some manner, while one is different. Choose the odd one.

A YZBE

B DEGI

C JKNQ

D QRTW

Answer: C

Explanation:

incorrect question...

both B as well as C are answers ...

SSC GD Syllabus (Download PDF)

Question 8

Select the related word pair from the given alternatives.

Afghanistan : Kabul :: :

A Iran : Dublin

B Nepal : Monaco

C Pakistan : Islam Nagar

D China : Beijing

Answer: D

Explanation:

Afghanistan : Kabul

Afghanistan is country name having kabul as it capital.

China : Beijing

China is country name having beijing as it capital.

Hence Option D is correct option.

Question 9

Find the missing analogous numbers pair :

1000 : 121 :: ?

A 64 : 8

B 125 : 36

C 27 : 64

D 343 : 81

Answer: B

Explanation:

First Number is perfect cube, Second number is square of the next number of the first number.

1000 : 121 :: 125 : 36

$10^3 : 11^2 :: 5^3 : 6^2$

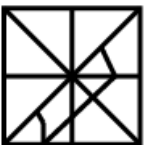
Question 10

Choose the option figure in which the problem figure is hidden/embedded.

Question Figure:



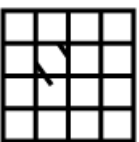
A



B



C



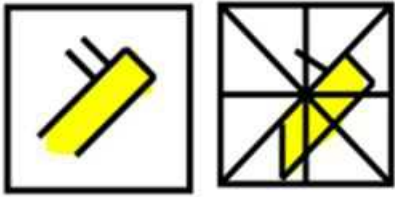
D



Answer: B

Explanation:

Option B is correct.



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Question 11

Select the related word pair from the given alternatives.

Month : Year :: :

- A Litre : Liquid
- B Speed : Vehicle
- C Time : Distance
- D Minute : Hour

Answer: D

Explanation:

Month is part of Year. Similarly, Minute is part of Hour. Hence option D follows.

Question 12

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

Some teaspoons are glasses.

All teddies are teaspoons.

Conclusions:

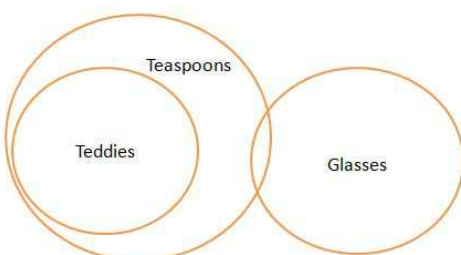
I. Some teddies are glasses.

II. Some glasses are teddies.

- A Either I or II follows
- B Only conclusion II follows
- C Only conclusion I follows
- D Neither I nor II follows

Answer: D

Explanation:



Conclusions:

- I. Some teddies are glasses- False.
II. Some glasses are teddies- False.

Neither I nor II follows.

Question 13

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

GPLS : 54 :: WGSK :

- A 70
- B 60
- C 65
- D 53

Answer: B

Explanation:

GPLS : 54

Add all the alphabet series numbers together

G-7, P-16, L-12, S-19

$(7+16+12+19 = 54)$

Similarly,

Lets add up WGSK alphabet series numbers.

To W-23, G-7, S-19, K-11

$(23+7+19+11=60)$

Hence **WGSK=60**

SSC CPO Previous Question papers (download pdf)

Question 14

In a certain code, NAP is coded as MZO, then how is SNEEZE coded in the same way as:

- A RQDFYG
- B RMDDYD
- C RMDFYD
- D RNDDYD

Answer: B

Explanation:

NAP is coded as MZO as Logic is N-1=m, A-1=z, P-1=o.

Lets bring 'SNEEZE' in some coded form of -1 in every alphabet

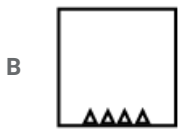
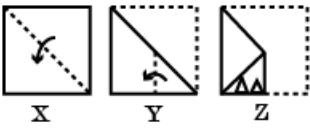
S-1 =r, N-1 =m, E-1 =d, E-1 =d, Z-1=y, E-1=d.

Hence, Sneeze will be coded as 'RMDDYD'.

Question 15

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

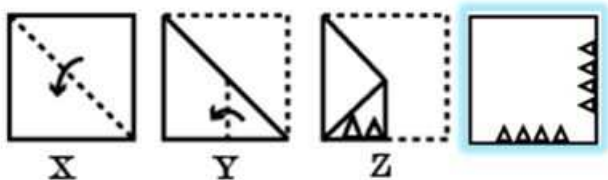
Question Figure:



Answer: D

Explanation:

On two sides 2 triangles cutting will turn $2 + 2 = 4$ triangles cuttings on south and east side.



Hence Option D is correct.

Question 16

Select the correct combination of mathematical signs to replace '*' signs and to balance the given equation:

$$54 * 6 * 5 * 14$$

A $+\div=$

B $=\times+$

C $-=\times$

D $\div+=$

Answer: D

Explanation:

Let's replace "*" with these symbols $\div + =$ sign's

$$54 \div 6 + 5 = 14$$

$$9 + 5 = 14$$

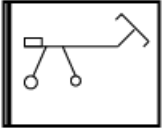
14

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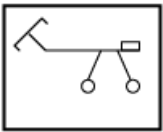
Question 17

Choose the option that most closely resembles the mirror image of the given figure when mirror is placed at left side

Question Figure:



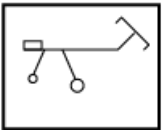
A



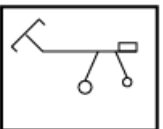
B



C



D

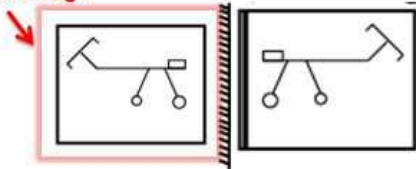


Answer: B

Explanation:

Option B is correct Mirror Image.

Mirror Image



Question 18

In a class of 35 children, Ameya's rank is sixth from the top. Annie is seven ranks below Ameya. What is Annie's rank from the bottom?

A 22

B 20

C 23

D 19

Answer: C

Explanation:

Ameya + Annie = Rank from top

$$6 + 7 = 13$$

Total No. of Students - Rank from Top + 1 = Annie's rank from bottom

$$35 - 13 + 1 = 23$$

Hence Annie's Rank from bottom is 23rd.

Question 19

Select the correct option that will fill in the blank and complete the series.

$$\begin{array}{cccccc} 3 & 5 & 7 & 9 & 11 & \\ 2 & 2 & 2 & 2 & 2 & ? \end{array}$$

A $\frac{12}{2}$

B $\frac{17}{2}$

C $\frac{13}{2}$

D $\frac{10}{2}$

Answer: C

Explanation:

In numerator we have +1 in every next number Series. Hence Next Number will be $\frac{13}{2}$

$$\begin{array}{cccccc} 3 & 5 & 7 & 9 & 11 & 13 \\ 2 & 2 & 2 & 2 & 2 & 2 \end{array}$$

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Question 20

Six kids are sitting in two rows facing north. Their names are Fuji, Ukain, Yam and Krish, Charlie. Mac. Fuji and Mac are sitting diagonally opposite. Ukain is in the top row and to the immediate right of Fuji. Krish is second to the left of Mac while Yam and Krish are not in the same row.

Who is sitting diagonally opposite to Yam?

A Charlie

B Krish

C Ukain

D Mac

Answer: B

Explanation:

Six kids are sitting in two rows facing north.

Ukain is in the top row and to the immediate right of Fuji.

Krish is second to the left of Mac

So, we will get as follows:

— — —

Krish _____ Mac

Fuji and Mac are sitting diagonally opposite

Fuji Ukain _____

Krish _____ Mac

Yam and Krish are not in the same row.

Hence we will get the final arrangement as follows:

Fuji Ukain Yam

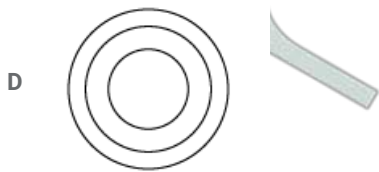
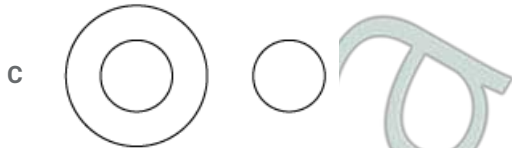
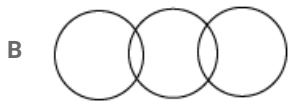
Krish Charlie Mac

Diagonally opposite to Yam will be Krish.

Question 21

Select the Venn diagram that best illustrates the relationship between the three given classes.

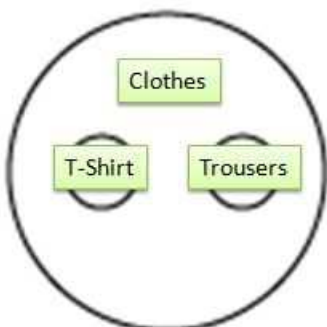
Clothes, T-shirt, Trousers



Answer: A

Explanation:

Picture 1 follows the perfect Combination of Cloth as whole forming two small contains T-shirt and Trousers.



Question 22

Select the correct option that will fill in the blank and complete the series.

FKP, GMQ, HOR, ?

- A IQS
- B IRT
- C JNK
- D JYI

Answer: A

Explanation:

FKP, GMQ, HOR, ?

First letter of each alphabet logic is as follows $F+1 = G+1 = H+1 = I$

Second letter of each alphabet Logic is as follows $K+2 = M+2 = O+2 = Q$

Third letter of each alphabet logic is as follows $P+1 = R+1 = S$

Hence Consolidating all together the last digit **IQS**

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 23

If **NAMAN** is written as **12321** and **VINESH** as **671489**, how will **NIMESH** be written?

- A 174583
- B 173486
- C 167893
- D 173489

Answer: D

Explanation:

Let do numbering to each alphabet.

$N=1, A=2, M=3, V=6, I=7, E=4, S=8, H=9.$

Hence Nimesh we will be numbered as 173489.

Question 24

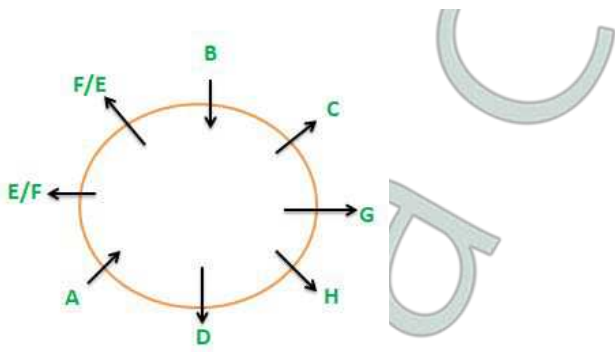
Eight people **A, B, C, D, E, F, G** and **H** are sitting around a circular table. **A** and **B** are facing towards the center while the other six people are facing opposite the center. **A** is sitting second to the right of **H**. **B** sits third to the left of **A**. **D** sits second to the right of **G**. **G** is neither immediate neighbour of **B** nor **A**. **E** and **F** are immediate neighbours and are facing outside. What is the position of **C** with respect to **D**?

- A Third to the right
- B Fourth to the left
- C Fourth to the right
- D Third to the left

Answer: D

Explanation:

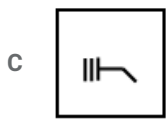
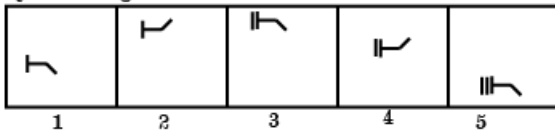
Position of **C** with respect to **D** Third to the left.



Question 25

Choose the option which comes next in the given figure series.

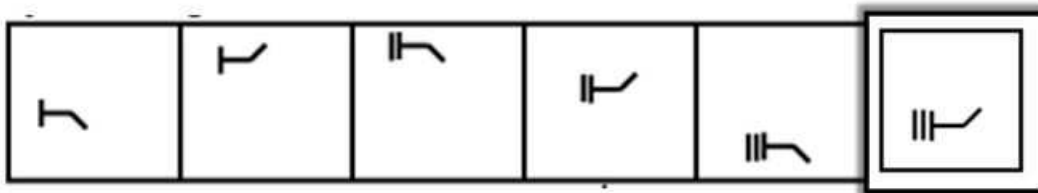
Question Figures:



Answer: D

Explanation:

After every 2 images. Double lining is increasing by 1. Hence in last figure we should have 3 lining plus north direction of pin.



[SSC Stenographer Previous Papers \(Download PDF\)](#)

General knowledge

Instructions

For the following questions answer them individually

Question 26

Which hormone is secreted by the pituitary gland?

- A Adrenaline
- B Growth hormone
- C Insulin
- D Thyroxin

Answer: B

SSC GD Constable Previous Papers

Question 27

Most classical dances of India combine three main facets namely, "Bhava", "Raga" and "

- A Svasara
- B Tala
- C Sopana
- D Mala

Answer: B

Question 28

National Youth Day is celebrated on the birthday of:

- A Swami Vivekananda
- B Swami Abhedananda
- C Swami Ashokananda
- D Swami Rajesgwaranand Maharaj

Answer: A

Question 29

Which of the following reasons for why construction of huge dams is opposed?

- A They are not cost effective
- B No support in producing hydroelectricity
- C Lack of manual labour
- D Large scale displacement of peasants and tribals

Answer: D

SSC MTS Previous Papers (DOWNLOAD PDF)

Question 30

Who has been Honoured with Ashoka Chakra at the 69th Republic Day 2018?

- A Hangpan Dada
- B Mukund Varadarajan
- C Mohan Goswami
- D Jyoti Prakash Nirala

Answer: D

Question 31

How many members were there in the Constituent Assembly that wrote the Indian Constitution?

- A 199
- B 299
- C 298
- D 198

Answer: B

Question 32

Which of the following policy falls under right to work?

- A Mahatma Gandhi National Rural Employment Guarantee Act
- B Ayushman Bharat
- C Pradhan Mantri Ujjwal Yojna
- D Saubhagya Scheme

Answer: A

SSC GD Constable Previous Papers (DOWNLOAD PDF)

Question 33

Which of the following sea ports declined after the emergence of East India Company?

- A Calcutta
- B Bombay
- C Vishakapatnam
- D Surat

Answer: D

Question 34

Which type of farming is practiced in areas of high population pressure on land?

- A Extensive subsistence farming
- B Commercial farming

- C Primitive subsistence farming
- D Intensive subsistence farming

Answer: D

Question 35

The festival associated with the worship of the sun, rivers and ponds is:

- A Makar Sankranti
- B Chhath
- C Diwali
- D Teej

Answer: B

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 36

The major economic attribute for comparing countries is their:

- A income
- B human development index
- C population
- D mortality rate

Answer: A

Question 37

On which river is the Bhakra Nangal Dam situated?

- A Sutlej
- B Ravi
- C Jhelum
- D Chenab

Answer: A

Question 38

Detention of political prisoners without trial for two years was a feature of:

- A Rowlatt Act
- B East India Stock Dividend Redemption Act
- C British India Regulating Act
- D Government of India Act

Answer: A

SSC CGL Free Mock Test (Latest Pattern)

Question 39

Mushrooms and other micro organisms feed on dead plant and animal tissues and convert them into

- A Sod
- B Peat
- C Clod
- D Humus

Answer: D

Question 40

Which of the following Indian artists has been awarded the Lifetime Achievement Grammy Award?

- A Zakir Hussain
- B A.R Rahman
- C Ravi Shankar
- D Lata Mangeshkar

Answer: C

Question 41

Who setup the first iron and steel works in India in 1912 at Jamshedpur?

- A R. J. Tata
- B R. D. Tata
- C D. J. Tata
- D J. N. Tata

Answer: D

SSC CHSL Free Mock Test (Latest Pattern)

Question 42

Which Indian state has made solar plants mandatory for housing societies, industries and other specified categories of buildings?

- A Manipur
- B Himachal Pradesh
- C Nagaland
- D Haryana

Answer: D

Question 43

In which year was the Prime Minister Rozgar Yojana (PMRY) scheme launched?

- A 1993
- B 1995
- C 1992
- D 1994

Answer: A

Question 44

Who is the fastest Asian to traverse the globe riding a bicycle?

- A Vedangi Kulkarni
- B Rameshwori Devi
- C Mayuri Lute
- D E Chaoba Devi

Answer: A

SSC Stenographer Previous Papers (Latest Pattern)

Question 45

Which Indian cultural site is NOT included in the World Heritage List?

- A Humayun's Tomb
- B Red Fort Complex
- C Qutub Minar
- D Jama Masjid

Answer: D

Question 46

Which gas is flushed in a bag of chips to prevent the chips from getting oxidized?

- A Oxygen
- B Nitrogen
- C Hydrogen
- D Helium

Answer: B

Question 47

Dhop is a seasonal game played in:

- A Meghalaya
- B Nagaland
- C Maharashtra
- D Assam

Answer: D

SSC GD Constable Free Mock Test (Latest Pattern)

Question 48

Who was the founder chairperson of Central Social Welfare Board?

- A G. Durgabai Deshmukh
- B Aruna Asaf Ali
- C Annie Besant
- D Sarojini Naidu

Answer: A

Question 49

Which of the following High Courts has the largest number of seats?

- A Mumbai High Court
- B Kolkata High Court
- C Allahabad High Court
- D Guwahati High Court

Answer: D

Question 50

Twinkling of stars is due to:

- A atmospheric reflection
- B scattering of light
- C internal reflection
- D atmospheric refraction

Answer: D

SSC MTS Free Mock Test (Latest Pattern)

Quant

Instructions

For the following questions answer them individually

Question 51

The average age of 3 persons is 30 years. If their ages are in the ratio of 3:5:7 respectively, then the age of the eldest person is:

- A 25 Years
- B 42 Years
- C 28 Years
- D 21 Years

Answer: B

Explanation:

Given average age of three persons = 30 years

Sum of the ages of three people = 90 years

Let the ages of three people be $3x$, $5x$ and $7x$.

Sum = $3x + 5x + 7x$

= $15x$

$15x = 90$

$x = 6$

Age of eldest person = 7×6

= 42 years

SSC CPO Free Mock Test (Latest Pattern)

Question 52

The L.C.M. of two different numbers are 30. Which of the following cannot be their H.C.F.?

- A 12
- B 15
- C 6
- D 10

Answer: A

Explanation:

Given LCM of two numbers is 30

Both numbers should be in the form of $30a$ and $30b$ where a and b are co-primes

In the following options 6, 10 and 15 are factors of 30 but not 12 and so 12 cannot be the HCF

Question 53

DIRECTIONS: What should come in place of question mark (?) in the following questions?

$1072 + \{8240 + (-9213)\} - \{(2863 - (4329 - 2143))\} = ?$

- A 578
- B -576
- C 576
- D -578

Answer: D

Explanation:

$1072 + \{8240 + (-9213)\} - \{(2863 - (4329 - 2143))\}$

$$\begin{aligned}
 &= 1072 + \{8240 + (-9213)\} - \{(2863 - 2186)\} \\
 &= 1072 + \{8240 + (-9213)\} - 677 \\
 &= 1072 - 1650 \\
 &= -578
 \end{aligned}$$

Question 54

On a certain sum, rate of interest per annum for the first two years is 4%. The rate of interest for next four years is 6% and for the next three years is 8%. If total simple interest earned at the end of 9 years is ₹ 1120, then the sum is:

- A ₹2240
- B ₹1600
- C ₹1800
- D ₹2000

Answer: D

Explanation:

Let the principle be P

For the first 2 years rate of interest is 4% and so total of 8% of P is collected in first 2 years

For the next 4 years rate of interest is 6% and so total of 24% of P is collected in next 4 years

For the next 3 years rate of interest is 8% and so total of 24% of P is collected in first 3 years

Total interest = (8+24+24)% of P

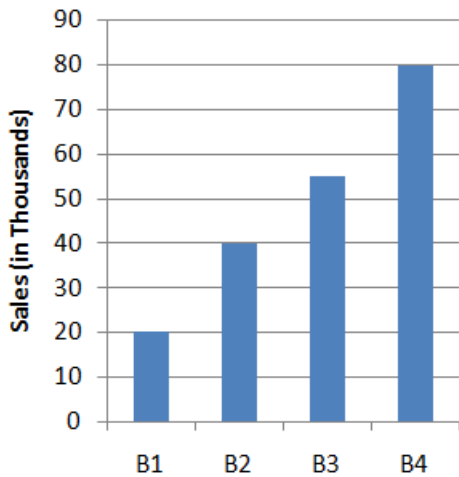
$$(56/100) * P = 1120$$

$$P = 2000$$

SSC GD Free Videos (Youtube)

Question 55

Sales of books from four shops (B1, B2, B3, B4) in thousands are given as below. Study the graph and answer the following questions.



If each shop can increase the sales of books by 10%, then the total number of books (in thousands) sold by all the shops are:

- A 215.5
- B 214.5
- C 240.0
- D 228.0

Answer: B

Explanation:

Total sales = $20000 + 40000 + 80000 + 55000$

= 195000

Given all the sales increase by 10% and so new total sales count is

= 195000×1.1

= 214.5k sales

Question 56

If ten men can do a job in ten days, what fraction of the job can be done by one man in one day?

A $\frac{1}{20}$

B $\frac{1}{10}$

C $\frac{1}{2}$

D $\frac{1}{100}$

Answer: D

Explanation:

Total work = 10×10 men days

= 100 men days

In one day one man can do 1×1 men day work = 1 men day work

It is $(1/100)$ th part of total work

Question 57

In a colony 5 families have 1 child, 7 families have 2 children, 8 families have 3 children and 3 families have 4 children. What is the mode of the number of children.

A 4

B 8

C 5

D 3

Answer: D

Explanation:

Mode is the value which has highest frequency in the group

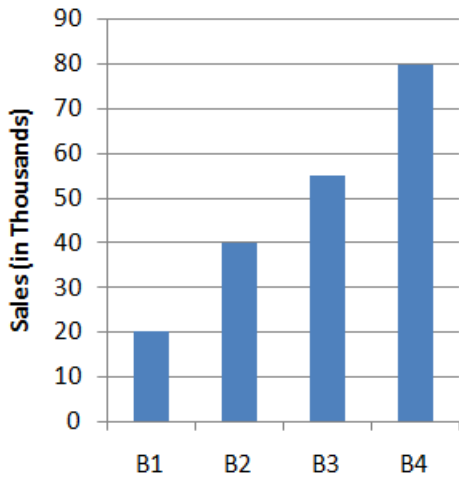
Here 8 families have 3 children and so it has the highest frequency

therefore 3 is the mode

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Question 58

Sales of books from four shops (B1, B2, B3, B4) in thousands are given as below. Study the graph and answer the following questions.



The number of shop in which sales of books are below the average level is:

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

Answer: A

Explanation:

Sales of B1=20000

Sales of B2=40000

Sales of B3=55000

Sales of B4=80000

Average=(20000+40000+55000+80000)/4

=195000/4

=48750

so B1 and B2 are below average level.

Question 59

What should come in place of question mark (?) in the following questions?

$$? = (45 \times 11) \div 3$$

- A 162
- B 165
- C 144
- D 235

Answer: B

Explanation:

By applying BODMAS we have $(45 \times 11) \div 3$

=15 × 11

=165

Question 60

If $x : y = 2 : 3$ then the value of $\frac{3x+2y}{9x+5y}$ will be:

- A $\frac{4}{11}$
- B $\frac{11}{2}$
- C $\frac{1}{2}$
- D $\frac{5}{14}$

Answer: A

Explanation:

Given $x:y=2:3$

let us assume $x=2$ and $y=3$ then

$$\frac{3x+2y}{9x+5y} = \frac{6+6}{18+15}$$

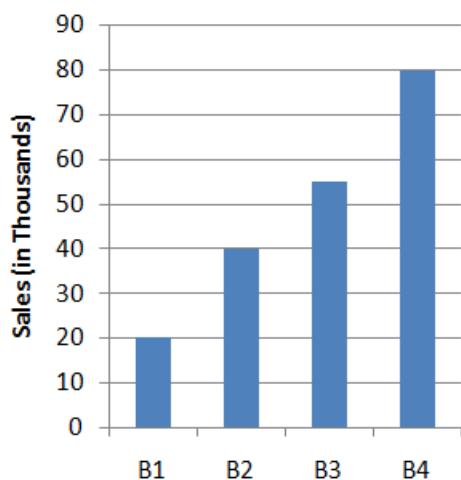
$$= \frac{12}{33}$$

$$= 4:11$$

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Question 61

Sales of books from four shops (B1, B2, B3, B4) in thousands are given as below. Study the graph and answer the following questions.



The average sales of book from shop B1, B2 and B4 is closest to:

- A 43633
- B 48333
- C 46666
- D 46333

Answer: C

Explanation:

Sales of B1=20000

Sales of B2=40000

Sales of B3=80000

$$\begin{aligned} \text{Average} &= (20000 + 40000 + 80000) / 3 \\ &= 140000 / 3 \\ &= 46666 \end{aligned}$$

Question 62

The income of A and B are in the ratio 5: 3. The expenses of A, B and C are in the ratio of 8: 5: 2. If C spends 2000 and B saves ₹ 700, then A saves:

- A ₹1000
- B ₹1500
- C ₹500
- D ₹250

Answer: B

Explanation:

let the incomes of A and B be $5x$ and $3x$ respectively
Given C spends Rs 2000 then A spends 8000 and B spends 5000
Given B saves 700
Therefore $3x - 5000 = 700$
 $3x = 5700$
 $x = 1900$
A's income = 5×1900
 $= 9500$
A saves $9500 - 8000$
 $= \text{Rs } 1500$

Question 63

A dealer buys goods at 10% discount on its list price and sells 10% above the list price. His profit percent is:

- A 20%
- B $22\frac{2}{9}\%$
- C $11\frac{11}{9}\%$
- D 10%

Answer: B

Explanation:

let the marked price = x
CP = $0.9x$
SP = $1.1x$
profit percent = $\frac{(1.1x - 0.9x)}{0.9x} \times 100$
 $= \frac{200}{9}\%$
 $= 22.22\%$

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Question 64

The area of an equilateral triangle is $(\frac{\sqrt{3}}{4})a^2$ sq cm. What is its perimeter?

- A 16 cm
- B 12 cm

C 24 cm

D 32 cm

Answer: C

Explanation:

Area of an equilateral triangle = $(\sqrt{3}/4)a^2$

$$(\sqrt{3}/4)a^2 = 16\sqrt{3}$$

$$a^2 = 64$$

$$a = 8 \text{ cm}$$

Perimeter of an equilateral triangle = $3a$

$$= 3 \times 8$$

$$= 24 \text{ cm}$$

Question 65

Rekha sells a DVD player to Liza at a profit of 15% and Liza sells it to Megha at a profit of 25%. If Megha pays ₹ 2875 for it, then what was the cost price for Rekha.

A ₹1800

B ₹2000

C ₹1500

D ₹1900

Answer: B

Explanation:

Let the Rekha's cost price = x

Rekha's selling price = $1.15x$

Liza's cost price = $1.15x$

Liza's selling price = $1.15x$

Megha's cost price = $1.25 \times 1.15x$

$$= 1.4375x$$

$$1.4375x = 2875$$

$$x = 2875 / 1.4375$$

$$x = \text{Rs } 2000$$

Question 66

If the curved surface area of a sphere increased by 44%, then by what percentage would its volume increase?

A 20%

B 44%

C Cannot be determined

D 72.8%

Answer: D

Explanation:

Curved surface area of a sphere = $4\pi r^2$

New curved surface area = $1.44 \times 4\pi r^2$

New curved surface area = $4\pi(1.2r)^2$

New radius = $1.2r$

Volume of the sphere = $(4/3)\pi r^3$

Volume of sphere with new radius = $(4/3)\pi(1.2r)^3$

$$= 1.728(4/3)\pi r^3$$

$$\begin{aligned}\text{Change} &= ((1.728-1)/1)*100 \\ &= 0.728*100 \\ &= 72.8\%\end{aligned}$$

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Question 67

A customer is given a discount of $2\frac{1}{2}$ % on the marked price of an item. He purchased it in ₹ 39. Marked price of the item is:

- A ₹36.5
- B ₹42
- C ₹40
- D ₹41.5

Answer: C

Explanation:

$$\text{MP} - \text{discount} = \text{SP}$$

$$\text{MP} = \text{SP} + \text{discount}$$

$$\text{SP} = \text{Rs } 39$$

$$\text{Discount} = 5/2 \% = 2.5\%$$

$$\text{MP} = 39 + 39 * (2.5/100)$$

$$= 39 + 0.975$$

$$= \text{Rs } 39.975$$

Question 68

A Train of 300 m length passes a pole in 15 second. What is the speed of the Train?

- A 72 km/hr
- B 75 km/hr
- C 65 km/hr
- D 60 km/hr

Answer: A

Explanation:

$$\text{Speed} = \text{distance}/\text{time}$$

$$= 300/15$$

$$= 20 \text{ m/s}$$

To convert it into km/hr we have to multiply it with 18/5

$$= 20 * 18/5$$

$$= 72 \text{ km/hr}$$

Question 69

Smith travels along four sides of a square at speeds of 10, 12, 15 and 20 km/hr. The average speed of the Smith is:

- A $13\frac{1}{3}$ km/hr
- B $12\frac{1}{2}$ km/hr
- C $14\frac{1}{4}$ km/hr

D 10 km/hr

Answer: A

Explanation:

Average Speed=Total distance/Total time

Let the side of the square be 's' and so total distance=4s

Total time $= (s/10) + (s/12) + (s/15) + (s/20)$

$= 18s/60$

Average speed $= 4s / (18s/60)$

$= 40/3$ km/hr

$= 13\frac{1}{3}$ km/hr

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Question 70

What will be the cost of fencing a circular garden of radius 35 m at the rate of ₹16 per meter? (Take $\pi = \frac{22}{7}$)

A ₹3520

B ₹3240

C ₹2850

D ₹3160

Answer: A

Explanation:

Circumference of the circular garden $= 2\pi r$

Area $= 2 * (\frac{22}{7}) * 35$

$= 220$ sq mt

Cost for each mt = Rs 16

Cost for whole garden $= 220 * 16$

$=$ Rs 3520

Question 71

A solution of milk and water contains milk and water in the ratio of 3 : 2. Another solution of milk and water contains milk and water in the ratio of 2 : 1. 40 liters of the first solution is mixed with 30 liter of the second solution. The ratio of milk and water in the resultant solution is:

A 22:13

B 13:22

C 6:5

D 5:6

Answer: A

Explanation:

Ratio of milk to water in solution 1 is 3:2

Solution 1 contains 40 liters.

Milk content in solution 1 $= (\frac{3}{5}) * 40$

$= 24$ liters

Water content $= 40 - 24 = 16$ liters

Ratio of milk to water in solution 2 is 2:1

Solution 2 contains 30 liters.

Milk content in solution 2 $= (\frac{2}{3}) * 30$

=20 liters
Water content=30-20=10 liters
Total milk content=24+20=44 liters
Total water content =16+10=26 liters
Ratio=22:13

Question 72

Had been one man less, then the number of days required to do a piece of work would have been one more. If the number of Men. Days required to complete the work is 56, how many workers were there?

- A 14
- B 9
- C 6
- D 8

Answer: D

Explanation:

Let the number of men be 'x' and number of days be 'y'
Total number of men days=xy
also $xy=(x-1)(y+1)$
 $xy=xy-1+x-y$
 $x-y=1$
 $xy=56$
 $x-(56/x)=1$
 $x^2 - x - 56=0$
 $x^2 - 8x + 7x - 56=0$
 $x(x-8)+7(x-8)=0$
 $(x+7)(x-8)=0$
 $x=8$ and $y=7$
Therefore 8 men are needed

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Question 73

A certain sum becomes ₹ 650 at the end of one year and ₹ 676 at the end of second year. What is the Principle :

- A 560
- B 624
- C 600
- D 540

Answer: B

Explanation:

In the case of simple interest each of the years have same interest.
So the interest for one year is $676-650=26$
Amount=Principle+Interest
 $650=\text{Principle}+26$
Principle= $650-26$
Principle=Rs 624

Question 74

The average temperature on Friday, Saturday and Sunday was 26° and on Saturday, Sunday and Monday it was 24° . If on Monday it was exactly 25° . Then what was the temperature on Friday.

- A 33°
- B 32°
- C 30°
- D 31°

Answer: D

Explanation:

Sum of temperatures on Friday, Saturday and Sunday = 78

Sum of temperatures on Monday, Saturday and Sunday = 72

Difference between temperature on Friday and Monday = 6

On Monday = 25

Friday = 25 + 6

= 31

Question 75

A cylinder of height 4 cm and base radius 3 cm is melted to form a sphere. The radius of sphere is:

- A 3 cm
- B 3.5 cm
- C 4 cm
- D 2.5 cm

Answer: A

Explanation:

In both the cases volume remains the same

$$\text{Therefore } \frac{4}{3}\pi r^3 = \pi R^2 h$$

$$r^3 = 27$$

$$r = 3 \text{ cm}$$

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Instructions

For the following questions answer them individually

Question 76

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

Whenever there is raining, desert flowers bloom and the sight can be rewarding.

- A Whenever it rains
- B No substitution required
- C When its rains

D When raining

Answer: A

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Question 77

Select the synonym of the given word.

VAIN

A Useful

B Useless

C Nutritious

D Beneficial

Answer: B

Question 78

Select the most appropriate word to fill in the blank.

He offered us food items for lunch and we were happy.

A delicious

B pungent

C lucrative

D big

Answer: A

Question 79

Select the meaning of the given idiom.

Play it safe

A play a game peacefully

B play indoors

C play for pleasure

D avoid risks

Answer: D

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Question 80

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

As the tree comes crashing down, monkeys woke from its sleep and run from branch to branch.

A wakes from it sleep

- B woke in their sleep
- C No substitution required
- D wake from their sleep

Answer: D

Question 81

Identify the segment in the sentence which contains the grammatical error from the given options.
We used to keep large plates offruit on a table nearer a windowin the dining-room.

- A We used to
- B nearer a window
- C on a table
- D large plates of

Answer: B

Question 82

Select the most appropriate word to fill in the blank.
The man insisted on buying the doves he was fond of birds.

- A because
- B due to
- C though
- D as if

Answer: A

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Question 83

Select the wrongly spelt word.

- A Perspiration
- B Paralysis
- C Plateform
- D Perseverance

Answer: C

Question 84

Select the meaning of the given idiom.
Drawa Blank

- A Unable to remember
- B Be an artist

- C Lose money
- D Display skills

Answer: A

Question 85

Select the most appropriate word to fill in the blank.
We went to see the butterfly farm was very close to our hotel.

- A It
- B Us
- C Them
- D They

Answer: A

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Question 86

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

The most pleasant way was to going and having a good dinner at some fine restaurant.

- A was going to have
- B No substitution required
- C is to have gone and eat
- D was to go and have

Answer: D

Question 87

Identify the segment in the sentence which contains the grammatical error from the given options.

An ant uses it's feelers or antennaeto 'talk' to other ants by passing messages through them.

- A to other ants
- B An ant
- C it's feelers
- D Through them

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 number.

Passage:

The National Aeronautics and Space Administration's (NASA) Viking Mission to Mars was (1)..... of two spacecraft. Viking 1 and Viking 2, (2)..... consisting of an orbiter and (3)..... lander. The primary objectives (4)..... to obtain images and samples (5)..... the Martian surface and soil.

Question 88

Select the most appropriate option that will fill in the blank number 1.

- A composed
- B making
- C consist
- D including

Answer: A

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Question 89

Select the most appropriate option that will fill in the blank number 2.

- A both of
- B one of
- C equally
- D each

Answer: D

Question 90

Select the most appropriate option that will fill in the blank number 3.

- A a
- B the
- C an
- D No article required

Answer: A

Question 91

Select the most appropriate option that will fill in the blank number 4.

- A was
- B were
- C is
- D has been

Answer: B

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Question 92

Select the most appropriate option that will fill in the blank number 5.

- A on
- B of
- C for
- D at

Answer: B

Instructions

For the following questions answer them individually

Question 93

Select the antonym of the given word.

DESPAIR

- A Hope
- B Distress
- C Hopelessness
- D Desperation

Answer: A

Question 94

Select the word which means the same as the group of words given.

A false or assumed identity

- A Annals
- B Alien
- C Archive
- D Alias

Answer: D

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Question 95

Select the synonym of the given word.

SUBSTANTIAL

- A Considerable
- B Worthless
- C Slight
- D Negligible

Answer: A

Question 96

Select the most appropriate word to fill in the blank.
Last year the performance of this production unit was

- A fantastic
- B tall
- C staggered
- D below

Answer: A

Question 97

Select the antonym of the given word.
ARID

- A Dry
- B Scorched
- C Wet
- D Parched

Answer: C

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Question 98

Select the wrongly spelt word.

- A Dilemma
- B Disaster
- C Disappear
- D Develop

Answer: D

Question 99

Select the word which means the same as the group of words given.
One who loves books

- A Librarian
- B Bibliophile
- C Orator
- D Veteran

Answer: B

Question 100

Identify the segment in the sentence which contains the grammatical error from the given options.
The chameleon's tongue is too long that it keeps it folded in the mouth.

- A too long that
- B The chameleon's
- C in the mouth
- D it keeps

Answer: A

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