



SSC GD 11th March 2019 Shift-2

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Reasoning

Instructions

For the following questions answer them individually

Question 1

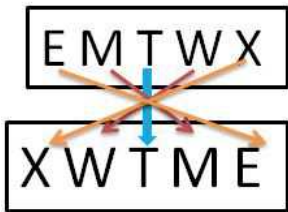
In a certain code, EMTWX is coded as XWTME, then how is PYSCI coded in the same way?

- A CIPSY
- B CYSIP
- C CISPY
- D ICSYP

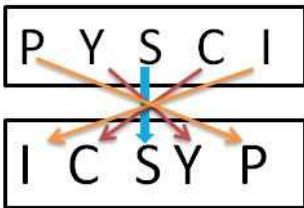
Answer: D

Explanation:

In this EMTWX Alphabet Places are exchanged.



Similarly, For PYSCI we will interchange their places.



Option D is correct Answer.

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Question 2

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

- A GAT
- B DAT
- C EAV
- D WAD

Answer: B

Explanation:

Middle alphabet of all question is A is common.

First and Last letter of Word is Opposite in the below series.

Hence in DAT D should follow W instead of T. Hence DAT is Wrong term.

GAT : DAT : EAV : WAD

A B C D E F G H I J K L M
Z Y X W V U T S R Q P O N

Question 3

Priti scored more than Rahul. Yamuna scored as much as Divya. Lokita scored less than Manju. Rahul scored more than Yamuna. Manju scored less than Divya. Who scored the lowest?

A Lokita

B Rahul

C Manju

D Yamuna

Answer: A

Explanation:

The correct Sequence of score will be Priti > Rahul > Yamuna > Divya > Manju > Lokita.

Hence Lokita score was lowest.

Question 4

Select the related word pair from the given alternatives.

Holi : Colours :: :

A Diwali : Light

B Muharram : Muslim

C Hemis : Folk

D Lodhi : Punjabi

Answer: A

Explanation:

Holi is celebrated as Festival of Colours. Similarly Diwali is celebrated as Festival of Lights. Hence Option A is correct Option.

All Other options other than A does not follow.

1) We will eliminate Option B. Muharram : Muslim - Muharam is celebrated by Islamic but purpose of muhram is not explained.

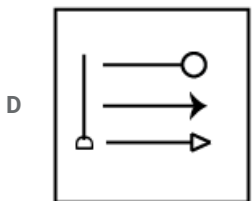
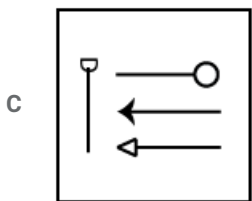
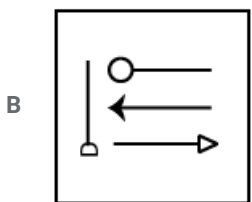
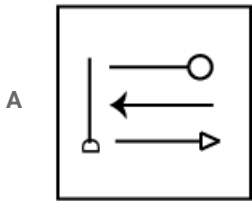
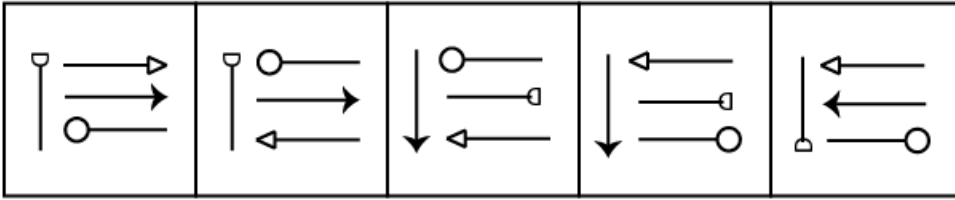
2) We will eliminate Option C. Hemis : Folk - Here Hemis is celebrated main Buddhist but main theme is not explained.

3) We will eliminate Option D Lodhi : Punjabi - Here also logic is Festival main theme for what festival is celebrated it is not explained.

SSC GD Important Questions and Answers PDF

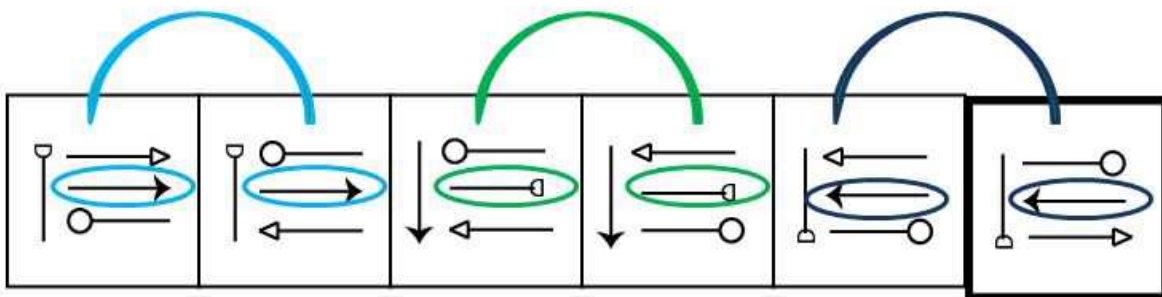
Question 5

Choose the option which completes the given figure series.



Answer: A

Explanation:



If u see, Image One and Image two both has middle arrow in same direction, Similarly Image Three and Four has middle arrow in Same direction.

Hence if we match Image 5 with Image 6. Our Correct Answer is **Option A**.

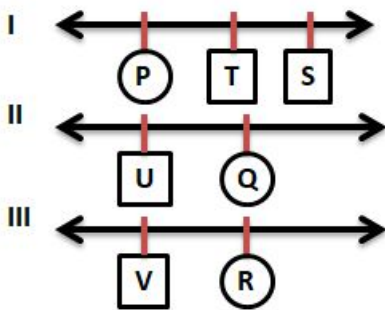
Question 6

In hall there are seven children (including girls and boys) P, Q, R, S, T, U and V. They sit on three benches I, II and III. Such that at least two children on each bench and atleast one girl on each bench. R who is a girl child, does not sit with P. T and S. U the boy child sit with only Q. P sits on the bench I with his best friends. V sits on the bench III. T is the brother of R. Who sits with R?

- A S
- B U
- C Q
- D V

Answer: D

Explanation:
V sits with R.



Question 7

Find the missing term.
119, 109, 89, 59,

- A 19
- B 39
- C 49
- D 29

Answer: A

Explanation:

119, 109, 89, 59, ?

$59 - 40 = 19$

-10 -20 -30 -40

If See the Pattern in above Number Series.

Subtract $119 - 109 = 10$

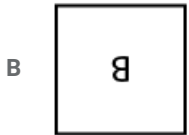
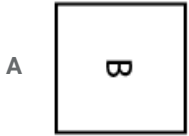
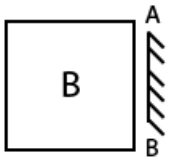
Subtract $109 - 89 = 20$

Subtract $89 - 59 = 30$

Hence Let's Subtract $59 - 40 = 19$

Question 8

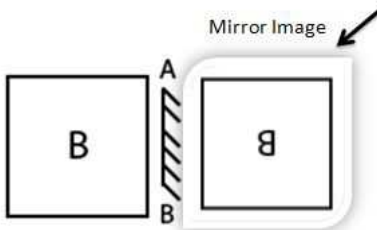
Choose the option that most closely resembles the mirror image of the given figure when mirror is placed at right side.



Answer: B

Explanation:

The Mirror Image is Reflection of Real Image in Opposite Direction.



Answer will be Option B.

Question 9

Six persons A, B, C, D, E and F are sitting in two rows, three in each.

E is not at the end of any row.

D is second to the left of F.

C, the neighbor of E is sitting diagonally opposite to D.

B is the neighbor of F.

Who is facing B?

A A

B E

C D

D C

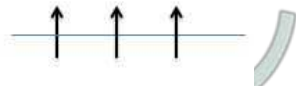
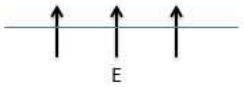
Answer: B

Explanation:

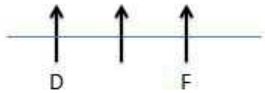
Lets Make two lines and plot all the instructions.

a) E is not at the end of any row.

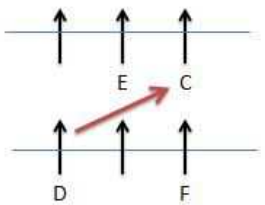
- It means E will not corner. E will be at Middle of any of the line.



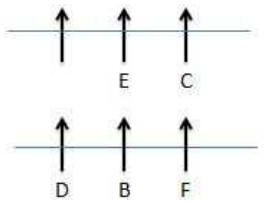
b) D is second to the left of F.



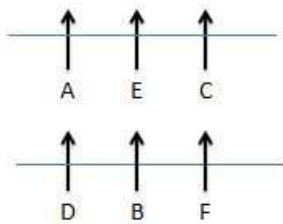
c) C, the neighbor of E is sitting diagonally opposite to D.



d) B is the neighbor of F.



e) Remaining Alphabet is A.



Hence B is facing E.

Question 10

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

A 135

B 54

C 72

D 83

Answer: D

Explanation:

All the number 135,54,72 are divisible by 3. But 83 is not divisible by 3. Hence Odd number is **83**.

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Question 11

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:

All flowers are fruits.

All fruits are Plants.

Conclusions:

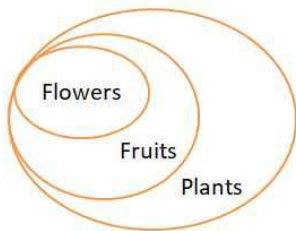
I. All Plants are flowers.

II. Some fruits are flowers.

- A Both Conclusions I and II follow.
- B Only Conclusion I follows.
- C Only Conclusion II follows.
- D Either Conclusion I or II follows.

Answer: C

Explanation:



Conclusions:

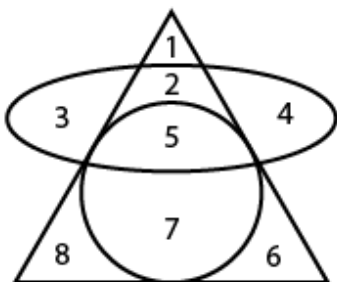
I. All Plants are flowers.- **False**. All Plants cannot go inside flower.

II. Some fruits are flowers. **True**. Some Fruits are Flowers.

Hence **Only Conclusion II Follows**.

Question 12

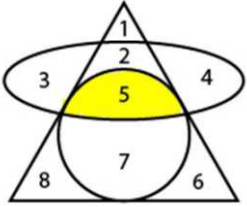
Which number is common to all the geometrical figures in the diagram below?



- A 7
- B 4
- C 2
- D 5

Answer: D

Explanation:



If we try to Visualize all Shapes one by one we can see Triangle/Circle/Cylindrical Circle. We can See Common Area number is **5**

Question 13

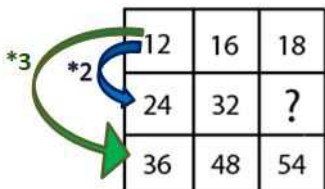
Find the missing number from the below options.

12	16	18
24	32	?
36	48	54

- A 28
- B 36
- C 48
- D 64

Answer: B

Explanation:



The Logic is First Row of Table has its multiple in next column. Like $12 \times 1 = 12$. In next Row, $12 \times 2 = 24$, in third row $12 \times 3 = 36$.

Similarly for first row of $18 \times 1 = 18$ then second row $18 \times 2 = 36$ and third row is $18 \times 3 = 54$

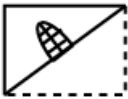


Hence $18 \times 2(?)$ missing number is **36**

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Question 14

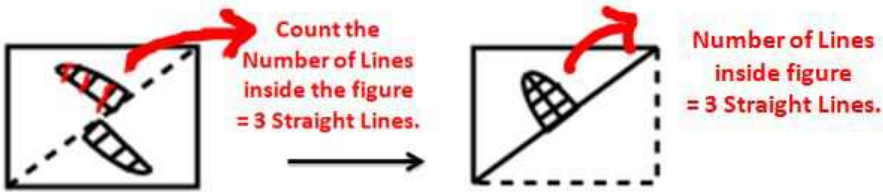
A figure marked on transparent sheet is given and followed by four answer figures, one out of these four options resembles the figure, which is obtained by folding transparent sheet along the dotted line. This option is your answer.



- B 
- C 
- D 

Answer: B

Explanation:



Question 15

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

47 : 15 :: ? : 19

- A 57
- B 36
- C 40
- D 59

Answer: D

Explanation:

47 : 15 :: ? : 19

$$15 * 3 + 2 = 47$$

$$19 * 3 + 2 = 59$$

Hence 59 is correct Answer.

Question 16

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

AEI, EIO, IOU,

- A OAU
- B OUA
- C IOA
- D MIL

Answer: B

Explanation:

AEI, EIO, IOU,

In above series we can see a logic getting carry forward of the last two alphabet from first series.

AEI → EIO

EIO → IOU

Hence IOU → OUA. Answer is B.

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Question 17

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

AE : IM :: HL : ?

A PT

B TP

C DS

D FU

Answer: A

Explanation:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A-E with follow the pattern with E-I,

H-L with follow the pattern with P-T.

Question 18

If '+' means '-', '-' means '×', '×' means '÷' and '÷' means '+', then:

$$43 - 2 \times 2 + 8 = ?$$

A 42

B 35

C 25

D 40

Answer: B

Explanation:

$43 - 2 \times 2 + 8 = ?$ After Replacing Symbols '+' with '-', '-' with '×', '×' with '÷' and '÷' with '+',

$$43 \times 2 \div 2 - 8 = ?$$

$$43 \times 1 - 8 = ?$$

$$43 - 8 = ?$$

$$35 = ?$$

Hence, Answer is 35

Question 19

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

- A Chennai
- B Mumbai
- C Dispur
- D Jharkhand

Answer: D

Explanation:

Jharkhand is a State. But other options Chennai, Mumbai, Dispur are Capital of States.

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Question 20

In a certain code, GYM is coded as 2275, then how is KIT coded in the same way?

- A 1980
- B 1950
- C 1970
- D 1960

Answer: A

Explanation:

Note down the alphabetic number series number and then multiply with each other.

GYM (G=7, Y=25, M=13) = $7 * 25 * 13 = 2275$

KIT (K=11, I=9, T=20) = $11 * 9 * 20 = 1980$

Hence, Option A=1980.

Question 21

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

43, 55, 79, 115,

- A 163
- B 127
- C 172
- D 139

Answer: A

Explanation:

43, 55, 79, 115, ?
 $+12 \quad +24 \quad +36 \quad +48$
 $115 + 48 = 163$

Find the Difference between Digits.

$43 - 55 = 12$

55-79 =24

79-115=36

If we observe carefully our series is in $12 \times 1 / 12 \times 2 / 12 \times 3$.

So we will add '48' to 115 to get our next digit 163

Question 22

Select the related word pair from the given alternatives.

Andhra Pradesh : Telugu :: :

- A Goa : Hindi
- B Assam : Maithili
- C Tripura : Telugu
- D Kerala : Malayalam

Answer: D

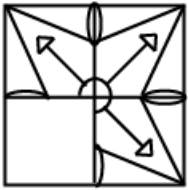
Explanation:

Regional Language of Andhra Pradesh is Telugu. Similarly, Kerala has regional Language as Malayalam.

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 23

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

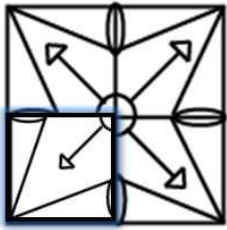


- A
- B
- C
- D

Answer: D

Explanation:

Answer D is correct Answer. The arrow inside the image should be in South-west direction.



Question 24

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 potatoes are tomatoes.

All tomatoes are onions.

Conclusions:

I. Some tomatoes are potatoes.

II. All onions are potatoes.

A Either Conclusion I or II follows.

B Only Conclusion I follows.

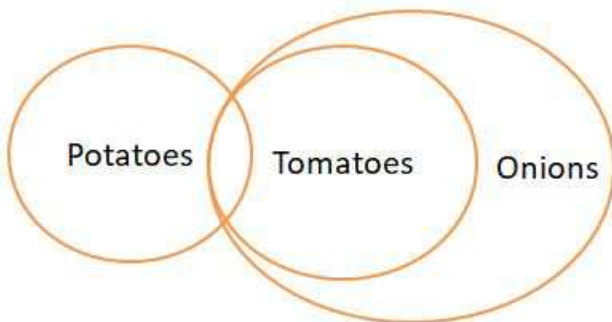
C Only Conclusion II follows.

D Both Conclusions I and II follow.

Answer: B

Explanation:

Only Condition 1 Follows.

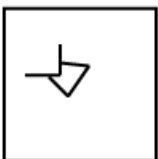


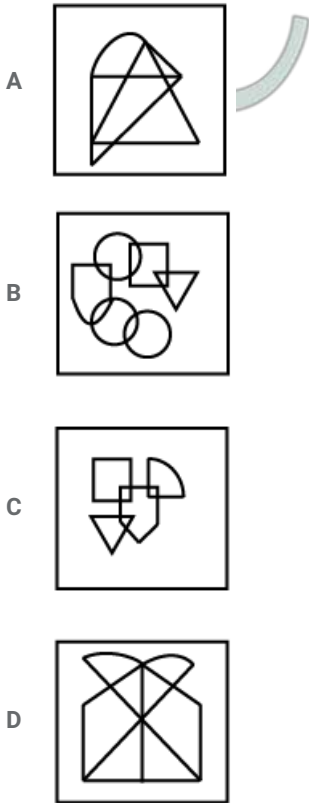
I. Some tomatoes are potatoes.= True

II. All onions are potatoes = False

Question 25

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





Answer: B

Explanation:

If u see carefully in Question Image.. A Circle is overlapped by a Little two horizontal lines which look alike to Square. In Image B we have Circle Overlapped by Square similar lines.

in Image A,C,D we don't have a Circle image.

Hence Answer B is correct Answer.

SSC Stenographer Previous Papers (Download PDF)

General knowledge

Instructions

For the following questions answer them individually

Question 26

A satyagrahi could win the battle with non-violence by:

- A Appealing to the common people of the oppressors
- B Appealing to the charity of the oppressors
- C Appealing to the conscience of the oppressors
- D Appealing to the leaders of the oppressors

Answer: C

SSC GD Constable Previous Papers

Question 27

The system of Government divides the legislature into two separate assemblies, chambers or houses.

- A Unicameral
- B Bicameral
- C Quadracameral
- D Tricameral

Answer: B

Question 28

Jiziya Tax, during the Mughal Empire was a tax levied on:

- A Muslim citizens
- B All the citizens
- C Noble citizens
- D Non-Muslim citizens

Answer: D

Question 29

In the 2018 Australian Open, was the winner in the Women's singles event.

- A Caroline Wozniacki
- B Martina Hingis
- C Serena Williams
- D Venus Williams

Answer: A

SSC MTS Previous Papers (DOWNLOAD PDF)

Question 30

The 2017 Sahitya Academy award for Gujarati was won by:

- A Ramesh Megh
- B Himanshu Patel
- C Urmi Desai
- D David Shah

Answer: C

Question 31

All the things we use or consume, except are obtained from resources on this earth.

- A energy from water
- B energy from wind

- C energy from friction
- D energy from the sun

Answer: D

Question 32

During the first world war (1914-1918):

- A Prices went down
- B Prices increased by less than 10%
- C Prices remained unchanged
- D Prices almost doubled

Answer: D

SSC GD Constable Previous Papers (DOWNLOAD PDF)

Question 33

Bitter tasting food is in nature.

- A Alkaline
- B Acidic
- C Neutral
- D Bases

Answer: D

Question 34

Democracy is considered to be better than dictatorship as it:

- A Allow special provisions for mistakes
- B Enhance the dignity of people
- C Reduces equality among citizens
- D Encourages conflicts among people

Answer: B

Question 35

The first Indian Prime Minister to have been assassinated is:

- A Indira Gandhi
- B Morarji Desai
- C Lal Bahadur Shastri
- D Jawaharlal Nehru

Answer: A

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 36

Which of the following destroys ozone?

- A Sulphur
- B Carbon
- C Chlorine
- D Silicon

Answer: C

Question 37

Consumers have a right to seek against unfair trade practices and exploitation.

- A Penalty
- B Sympathy
- C Injury
- D Redressal

Answer: D

Question 38

Sugam Tax is related to:

- A Income Tax
- B Custom Duty
- C Excise Duty
- D Commercial Tax

Answer: A

SSC CGL Free Mock Test (Latest Pattern)

Question 39

Substances said to be biodegradable:

- A Can be broken down by physical process
- B Can be broken down by chemical process
- C Can be broken down by biological processes
- D Cannot be broken down at all

Answer: C

Question 40

The Kulik bird sanctuary is located in:

- A West Bengal
- B Uttar Pradesh
- C Kerala
- D Madhya Pradesh

Answer: A

Question 41

In the 2016 Olympics, won the gold in women's 100-metres sprint.

- A Elaine Thompson
- B Shelly-Ann Fraser-Pryce
- C Gail Devers
- D Wyomia Tyus

Answer: A

SSC CHSL Free Mock Test (Latest Pattern)

Question 42

The 'Ranappa' dance is from the state of:

- A Odisha
- B Tamil Nadu
- C Kerala
- D Punjab

Answer: A

Question 43

Dumhal is a form of dance from the state of:

- A Gujarat
- B Kerala
- C West Bengal
- D Jammu and Kashmir

Answer: D

Question 44

The first Bharat Ratna award of independent India was given to:

- A C.N.R Rao
- B Jawaharlal Nehru
- C C.V Raman
- D Sardar Patel

Answer: C

SSC Stenographer Previous Papers (Latest Pattern)

Question 45

Green algae are green because of:

- A phycoerythrin
- B chlorophyll
- C xanthophylls
- D phycobilin

Answer: B

Question 46

Who amongst the following is the Minister for Rural Development in India as on Feb 2019?

- A Narendra Singh Tomar
- B Anant Geete
- C Dharmendra Pradhan
- D Santosh Kumar Gangwar

Answer: A

Question 47

The Southernmost port in India is located in the state of:

- A Andhra Pradesh
- B Tamil Nadu
- C Kerala
- D Telangana

Answer: B

SSC GD Constable Free Mock Test (Latest Pattern)

Question 48

The human sex chromosomes determine the gender of the child, with XX being:

- A Transgender
- B Female
- C Could be either female or male
- D Male

Answer: B

Question 49

Harappa and were the two ancient, excavated cities that were part of the Indus Valley Civilization.

- A Varanasi
- B Hastinapura
- C Surat
- D Mohenjo-Daro

Answer: D

Question 50

An instrument called measures 'electric potential difference' in a circuit.

- A Gyroscope
- B Ohmmeter
- C Voltmeter
- D Thermometer

Answer: C

SSC MTS Free Mock Test (Latest Pattern)

Quant

Instructions

For the following questions answer them individually

Question 51

A solid metallic sphere of radius 4 cm is melted and recast into '4' identical cubes. What is the side of the cube?

- A $7\sqrt[3]{\pi} \text{ cm}$
- B $5\sqrt[3]{\pi} \text{ cm}$
- C $6\sqrt[3]{\pi} \text{ cm}$
- D $4\sqrt[3]{\pi} \text{ cm}$

Answer: D

Explanation:

Volume of sphere
 Volume of each cube = Number of cubes

$$4 \times 3\pi \times 64 = \frac{64\pi}{3}$$

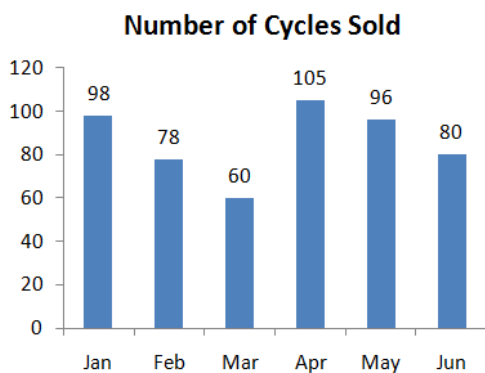
$$= 4 = 3$$

Length of each side = $\sqrt[3]{\frac{64\pi}{3}} = 4\sqrt[3]{\frac{\pi}{3}}$

SSC CPO Free Mock Test (Latest Pattern)

Question 52

The bar graph shows the number of cycles sold by a distributor in each month from January to June. What is the increase in the number of cycles sold in April as compared to March?



- A 75%
- B 78%
- C 68%
- D 70%

Answer: A

Explanation:

Number of cycles sold in March = 60

Number of cycles sold in April = 105

$$\text{Percentage Increase in number of cycles} = \frac{105 - 60}{60} \times 100 = \frac{45}{60} \times 100 = 75\%$$

Question 53

The ratio between the perimeter and the breadth of a rectangle is 3 : 1. If the area of the rectangle is 310 sq. cm, the length of the rectangle is nearly:

- A 11.45 cm
- B 10.45 cm
- C 12.45 cm
- D 13.45 cm

Answer: C

Explanation:

Let the length and breadth of the rectangle be l cm and b cm

$$2(l + b) = 3$$

Given, $b = 1$

$$\Rightarrow 2(l + 1) = 3$$

$$\Rightarrow 2l + 2 = 3$$

$$\Rightarrow b = 2l$$

Given, $lb = 310$

Substituting $b = 2l$ in above equation

$$l \times 2l = 310$$

$$2l^2 = 310$$

$$\Rightarrow l^2 = 155$$

We know that $12^2 = 144$ and $13^2 = 169$.

Hence, The value of l lies in between 12 and 13.

Therefore, From the options, $l = 12.45$ cm

Question 54

The volume of a solid sphere is 4851 m^3 . What is the surface area of the sphere? (Take $\pi = \frac{22}{7}$)

A 1386 m^2

B 1364 cm^2

C 1260 cm^2

D 1408 cm^2

Answer: A

Explanation:

Volume of the sphere = 4851 m^3

Let the radius of the sphere = r m

$$\frac{4}{3} \pi r^3 = 4851$$

$$3 \times \frac{22}{7} \times r^3 = 4851$$

$$\Rightarrow r^3 = \frac{4851 \times 7}{3 \times 22} = \frac{21^3}{22}$$

$$\Rightarrow r = \frac{21}{22}$$

$$\text{Surface area} = 4 \times \frac{22}{7} \times \left(\frac{21}{22}\right)^2 = 1386 \text{ m}^2$$

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Question 55

Find the value of:

$$(7 \times 6 + 5 - 15) \div 4 + 6 \div 3 - 4 + 18 \div 3$$

A 12

B 14

C 16

D 18

Answer: A

Explanation:

$$(7 \times 6 + 5 - 15) \div 4 + 6 \div 3 - 4 + 18 \div 3 = \frac{32}{4} + \frac{6}{3} - 4 + \frac{18}{3} = 8 + 2 - 4 + 6 = 12$$

Question 56

What is the reciprocal ratio of 4 : 5 : 8?

- A 8 : 5 : 4
- B 5 : 4 : 3
- C 3 : 4 : 5
- D 10 : 8 : 5

Answer: D

Explanation:

$$\text{Reciprocal ratio of } 4 : 5 : 8 = \frac{1}{4} : \frac{1}{5} : \frac{1}{8} = 10 : 8 : 5$$

$$\text{LCM} = 40$$
$$\frac{40}{4} : \frac{40}{5} : \frac{40}{8} = 10 : 8 : 5$$

$$\Rightarrow 40 : 40 : 40 = 10 : 8 : 5$$

Question 57

The list price of an article is ₹ 80. A customer pays ₹ 30 for it. He was given 2 successive discounts, one of them being 50%. What was the other discount?

- A 20%
- B 12.50%
- C 30%
- D 25%

Answer: D

Explanation:

Given, Marked Price = Rs.80

Selling Price = Rs.30

Discount = Rs.80-Rs.30 = Rs.50

One discount = 50%

50% of 80 = Rs.40

Let the other discount be x%

$$100 - x$$

$$40 \times \frac{100 - x}{100} = 30$$

$$\Rightarrow 200 - 2x = 150 \Rightarrow 2x = 50 \Rightarrow x = 25$$

Therefore, The other discount = 25%

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Question 58

X, Y and Z can complete a piece of work in 8, 20 and 25 days respectively. Working together, they will complete the same work in:

- A $\frac{180}{43}$ days
- B $\frac{162}{43}$ days
- C $\frac{200}{43}$ days

D $\frac{172}{43}$ days

Answer: C

Explanation:

Let the total work be 200 units

Efficiency of X = $200/8 = 25$ units per day

Efficiency of Y = $200/20 = 10$ units per day

Efficiency of Z = $200/25 = 8$ units per day

Total efficiency of X, Y and Z together = 43 units per day.
 $\frac{200}{43}$

Therefore, X, Y and Z together can do the work in $\frac{200}{43}$ days

Question 59

A grocer has a sale of ₹ 3,425, ₹ 3,810, ₹ 3,155 and ₹ 3,610 in 4 consecutive days. How much sale should he have in the 5th day so as to get an average sale of ₹ 3,500?

A ₹3,500

B ₹3,435

C ₹3,480

D ₹3,455

Answer: A

Explanation:

Total sale for 4 days = $3425+3810+3155+3610 = \text{Rs.}14000$

Let the sale for 5th day be Rs.x

$14000 + x$

$$\frac{\quad}{5} = 3500$$

$$\Rightarrow 1400 + x = 17500 \Rightarrow x = \text{Rs.}3500$$

Question 60

A car owner buys petrol at ₹ 40, ₹ 50 and ₹60 per litre for 3 consecutive years. If he spends ₹ 30,000 each year, what is the average cost of a litre of petrol? (correct to two decimal places)

A ₹48.65

B ₹51.20

C ₹49.20

D ₹50

Answer: A

Explanation:

Total petrol bought in first year = $\frac{30000}{40} = 750$ litres

Total petrol bought in second year = $\frac{30000}{50} = 600$ litres

Total petrol bought in third year = $\frac{30000}{60} = 500$ litres

Total petrol bought in three years = $750+600+500 = 1850$ litres

Total money spent on petrol in three years = $\text{Rs.}30000*3 = \text{Rs.}90000$
 $\frac{90000}{1850}$

Therefore, Average Cost of petrol per litre = $\frac{90000}{1850} = \text{Rs.}48.65$

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Question 61

P works twice as fast as Q. If Q can complete a task in 36 days independently, the number of days in which P and Q can together complete the task in:

- A 12 days
- B 9 days
- C 16 days
- D 18 days

Answer: A

Explanation:

Given, Efficiencies of P and Q are in the ratio 2 : 1.

Q can do the work independently in 36 days.

Let the total work be 36 units.

Efficiency of Q = 1 unit per day

Efficiency of P = 2 units per day.

Efficiency of P and Q together = 3 units per day

Therefore, 36 units of work will be completed in $36/3 = 12$ days.

Question 62

A train passes a platform in 42 seconds and a man standing on the platform in 25 seconds. If the speed of the train is 72 km/hr, what is the length of the platform?

- A 300 m
- B 270 m
- C 340 m
- D 370 m

Answer: C

Explanation:

Given, Speed of the train = 72 km/hr = $72 \times \frac{5}{18} = 20 \text{ m/sec}$

Time taken to cross a man on the platform = 25 seconds

Let the length of the train be T m and length of the platform be P m.

Given, $\frac{T}{20} = 25 \Rightarrow T = 500$

Hence, The length of the train = 500 m

Given, $\frac{500 + P}{20} = 42 \Rightarrow 500 + P = 840 \Rightarrow P = 340$

Therefore, The length of the platform = 340 m

Question 63

What is the greatest 3-digit number divisible by 4, 5 and 6?

- A 990
- B 930
- C 960

D 900

Answer: C

Explanation:

The greatest 3 digit number = 999

LCM of 4,5,6 = 60

Dividing 999 by 60, we get a remainder of 39.

Subtracting $999 - 39 = 960$.

Therefore, 960 is the greatest 3 digit number divisible by 4,5,6.

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Question 64

If a equals 20% of c and b equals 40% of c, then which one of the following is 150% of b?

A 50% of c

B 250% of a

C 65% of c

D 300% of a

Answer: D

Explanation:

1

Given, $a = \frac{1}{5} \times c \Rightarrow c = 5a$

2

$b = \frac{1}{2} \times c$

Substituting $c = 5a$ in above equation

2

$b = \frac{1}{2} \times 5a = \frac{5a}{2}$

Then,

150% of b = 150% of $\frac{5a}{2} = 300\%$ of a

Question 65

Two numbers A and B are respectively 80% and 50% more than the third number C. What is the ratio of A and B?

A 6 : 5

B 5 : 6

C 8 : 5

D 5 : 8

Answer: A

Explanation:

Let third number C be 100

Then, A = 180% of 100 = 180

B = 150% of 100 = 150

A : B = 180 : 150 = 6 : 5

Question 66

A cloth piece was purchased for ₹ 700. At what price should it be sold to get a profit of 12.5% after a tailoring charge of ₹ 20 was paid for?

- A ₹760
- B ₹810
- C ₹785
- D ₹840

Answer: B

Explanation:

Total Effective Cost Price = Rs.700+Rs.20 = Rs.720

Required Profit = 12.5% = 8

Therefore, Required Selling Price = $Rs.720 + 8 \times 720 = Rs.720 + 90 = Rs.810$

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Question 67

The length of the bridge, which a train 400 metres long and travelling at 60 km/hr can cross in 36 seconds, is:

- A 450 m
- B 250 m
- C 200 m
- D 500 m

Answer: C

Explanation:

Let the length of the bridge = L m

Speed of the train = 60 km/hr = $60 \times \frac{5}{18} = 16\frac{2}{3} \text{ m/sec}$

$$\frac{400 + L}{36} = 16\frac{2}{3}$$

$$\Rightarrow 400 + L = 600$$

$$\Rightarrow L = 200$$

Therefore, Length of the bridge = 200 m

Question 68

Find the value of:

$$(11 + 4) - 9 \times 1 \div 3 \text{ of } 4$$

- A $\frac{75}{4}$
- B $\frac{57}{4}$
- C 5
- D 3

Answer: B

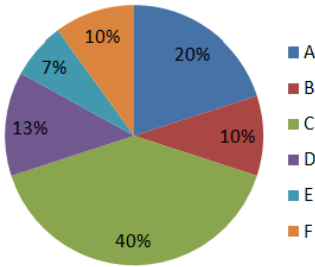
Explanation:

$$(11 + 4) - 9 \times 1 \div 3 \text{ of } 4 = 15 - 9 \times 3 \times 4 = 15 - 4 = 4$$

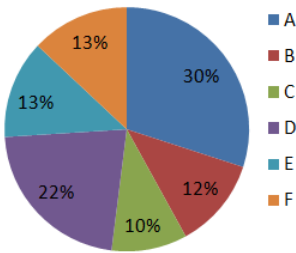
Question 69

The pie charts show the market share of the companies in the detergent market in 2017 and 2018. The total size of the market has decreased from ₹ 300 crores to ₹ 200 crores. What is the decrease in the sales of Company F?

DISTRIBUTION OF SALES IN 2017



DISTRIBUTION OF SALES IN 2018



- A $14\frac{1}{3}\%$
- B $12\frac{1}{3}\%$
- C $33\frac{1}{3}\%$
- D $13\frac{1}{3}\%$

Answer: D

Explanation:

Sales of Company F in 2017 = 10% of Rs.300 crore = Rs.30 crore

Sales of Company F in 2018 = 13% of Rs.200 crore = Rs.26 crore

$$\text{Decrease in sales} = \frac{30 - 26}{30} \times 100 = \frac{4}{30} \times 100 = 13\frac{1}{3}\%$$

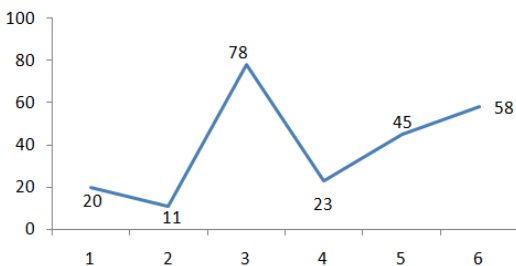
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Question 70

The line graph shows the scores of a batsman in 6 consecutive matches.

What is his batting average in the 6 matches?

Score in each Match



- A 37.19
- B 38.33
- C 38.17
- D 39.17

Answer: D

Explanation:

$$\text{His batting average} = \frac{20 + 11 + 78 + 23 + 45 + 58}{6} = \frac{235}{6} = 39.17$$

Question 71

If the selling price is tripled, the profit becomes 5 times. What is the profit percent?

- A 100%
- B 200%
- C 50%
- D 150%

Answer: A

Explanation:

Let the Cost Price be Rs.100 and Selling Price be Rs.x

Then, Profit = Rs.(x - 100)

New Selling Price = Rs.3x

Then, New profit = Rs.(3x-100)

Given, $3x-100 = 5(x-100) \Rightarrow 2x = 400 \Rightarrow x = 200$

Hence, Selling Price = Rs.200

$$\text{Profit percentage} = \frac{200 - 100}{100} \times 100 = 100\%$$

Question 72

A sum fetched a total simple interest of ₹ 1,350 at 9% p.a. in 5 years. What is the sum?

- A ₹2,000
- B ₹3,300
- C ₹2,500
- D ₹3,000

Answer: D

Explanation:

Given that Simple Interest = Rs.1350

Rate of interest = 9%

Time period = 5 years

Let the principal be Rs.P

$$P \times 9 \times 5 = 1350$$

$$\Rightarrow P = \text{Rs.3000}$$

Therefore, Principal = Rs.3000

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Question 73

What is the value of x if the mean of 21, 26, 49 and x is 32?

- A 30
- B 36
- C 32
- D 34

Answer: C

Explanation:

Given numbers are 21, 26, 49 and x

$$\frac{21 + 26 + 49 + x}{4} = 32$$

Given, $\frac{96 + x}{4} = 32$

$$96 + x = 128$$

$$\Rightarrow 4 = 32$$

$$\Rightarrow 96 + x = 128$$

$$x = 32$$

Question 74

If 15 apples cost as much as 6 strawberries, 2 strawberries cost as much as 16 bananas, 6 bananas cost as much as 15 potatoes, then what is the cost of 1 potato if an apple costs ₹ 20?

- A ₹25
- B ₹22.50
- C ₹2.50
- D ₹2.25

Answer: C

Explanation:

$$15A = 6S \Rightarrow A : S = 6 : 15$$

$$2S = 16B \Rightarrow S : B = 16 : 2$$

$$6B = 15P \Rightarrow B : P = 15 : 6$$

where A = Apples, S = Straw berries, B = Bananas and P = Potatoes

Multiplying A : S by 16 and S : B by 15,

$$A : S = 96 : 240 \text{ and } S : B = 240 : 30$$

$$\text{Hence, } A : S : B = 96 : 240 : 30$$

Multiplying B : P by 2,

$$B : P = 30 : 12$$

$$\text{Then, } A : S : B : P = 96 : 240 : 30 : 12$$

Let the cost of Apples, Straw berries, Bananas and Potatoes be Rs.96x, Rs.240x, Rs.30x and Rs.12x respectively.

$$\text{Given, Rs.}96x = 20 \Rightarrow x = \frac{20}{96} = \frac{5}{24}$$

$$\text{Therefore, Cost of 1 potato} = 12x = 12 \times \frac{5}{24} = \text{Rs.}2.5$$

Question 75

A sum of ₹ 1,000 becomes ₹ 1,144.90 in 2 years. At what rate is the interest compounded annually?

- A 7%
- B 5%
- C 8%
- D 6%

Answer: A

Explanation:

Given, Principal = Rs.1000

Amount = Rs.1144.9

Time period = 2 years

$$1000 \times \left(1 + \frac{R}{100}\right)^2 = 1144.9$$

$$\Rightarrow \left(1 + \frac{R}{100}\right)^2 = \frac{1144.9}{1000} = 1.1449$$

$$\Rightarrow 1 + \frac{R}{100} = \sqrt{1.1449}$$

$$\Rightarrow \sqrt{1.1449} = 1.07$$

$$\Rightarrow R = 7\%$$

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English

Instructions

For the following questions answer them individually

Question 76

Select the synonym of the given word.

COMPASSION

- A Indifference
- B Heartlessness
- C Cruelty
- D pity

Answer: D

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Question 77

Select the wrongly spelt word.

- A Believe
- B Conscience

C Irresistable

D Apparent

Answer: C

Question 78

Identify the segment in the sentence which contains the grammatical error from the given options.
Thunderstorms develop in hot, humid tropical areas like India muchto frequently.

A tropical areas

B frequently

C Thunderstorms develop

D much to

Answer: D

Question 79

Select the word which means the same as the group of words given.
Intentionally starting a fire to damage something

A Extinguish

B Arson

C Crime

D Loot

Answer: B

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Question 80

Identify the segment in the sentence which contains the grammatical error from the given options.
The earthy fragrance of soil after a first rain is always refreshing.

A always refreshing

B The earthy

C a first rain

D fragrance of

Answer: C

Question 81

Select the most appropriate word to fill in the blank.
India gets a large number of medical tourists and visitors many countries.

A Through

B by

- C from
- D across

Answer: C

Question 82

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.

In vigorous exercise, the demand for bodily energy is very high.

- A In vigorously exercise
- B No substitution required
- C While vigorous exercise
- D During vigorous exercise

Answer: D

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Question 83

Select the most appropriate word to fill in the blank.

Unlike the calm waters of lakes, ocean water keeps moving

- A continuous
- B continuously
- C continue
- D continuing

Answer: B

Question 84

Select the wrongly spelt word.

- A leisure
- B Independant
- C Judgment
- D license

Answer: B

Question 85

Select the most appropriate word to fill in the blank.

After reaching New York, Prakash will have to himself to the new surroundings.

- A develop
- B mix

C submit

D adapt

Answer: D

SSC MTS Previous Papers (DOWNLOAD PDF)

Question 86

Select the meaning of the given idiom.
Bite off more than one can chew

A To have an upset stomach

B To be always hungry

C To take more than one can deal with

D To attack fiercely

Answer: C

Question 87

Select the most appropriate word to fill in the blank.
The authorities have into this incident.

A examined

B evaluated

C tested

D probed

Answer: D

Question 88

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 food is broke down into useful substances that can be absorbed by the body.

A is broken down

B break down

C is breaking down

D No substitution required

Answer: A

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Question 89

Select the antonym of the given word.
AGONY

- A Suffering
- B Affliction
- C Pleasure
- D Pain

Answer: C

Question 90

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.

Yesterday, Maria was eagerly waited to meet her grandparents.

- A No substitution required
- B was eagerly waited
- C eagerly wait
- D was eagerly waiting

Answer: D

Question 91

Identify the segment in the sentence which contains the grammatical error from the given options.
Continuous heavy rainfall may farther worsen the flood situation.

- A rainfall may
- B Continuous
- C farther
- D flood situation

Answer: C

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Question 92

Select the word which means the same as the group of words given.
A person employed to drive a private or hired car

- A Chauffeur
- B Astronaut
- C Sailor
- D Pilot

Answer: A

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:

Settlements are (1)..... where people build their homes. (2)..... human beings lived on trees and (3)..... caves. When they started (4)..... crops it became (5)..... to have a permanent home.

Question 93

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

- A quarters
- B sections
- C passages
- D places

Answer: D

Question 94

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

- A Prior
- B Previous
- C Early
- D Initial

Answer: C

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Question 95

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

- A around
- B on
- C at
- D in

Answer: D

Question 96

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

- A growing
- B grows
- C grown
- D grow

Answer: A

Question 97

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

- A needed
- B required
- C necessary
- D requirement

Answer: C

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Instructions

For the following questions answer them individually

Question 98

Select the synonym of the given word.

GRATIFICATION

- A Dissatisfaction
- B Satisfaction
- C Complaint
- D Annoyance

Answer: B

Question 99

Select the antonym of the given word.

AGREEMENT

- A Discord
- B Accord
- C Consensus
- D Harmony

Answer: A

Question 100

Select the meaning of the given idiom.

Under the gun

- A To be cruel
- B To be brave
- C To be killed
- D To be under pressure

Answer: D

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