

SSC CHSL 21st October 2020 Shift-2

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English Language (Basic Knowledge)

Instructions

For the following questions answer them individually

Question 1

Select the INCORRECTLY spelt word.

- A Pnemonia
- **B** Deviation
- C Miscellaneous
- **D** Preamble

Answer: A



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Question 2

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

A person weak and disabled by illness

- A Athlete
- **B** Invalid
- C Activist
- **D** Petitioner

Answer: B

Question 3

Select the most appropriate word to fill in the blank.

The police used tear gas to _____ the crowd.

- A attack
- **B** disburse
- C collect
- **D** disperse

Answer: D

Question 4

Select the most appropriate meaning of the given idiom.

Take something with a pinch of salt

- A To think of oneself as always right
- B To consider everyone a liar
- C To believe only part of something



D To take long to understand what is being said

Answer: C

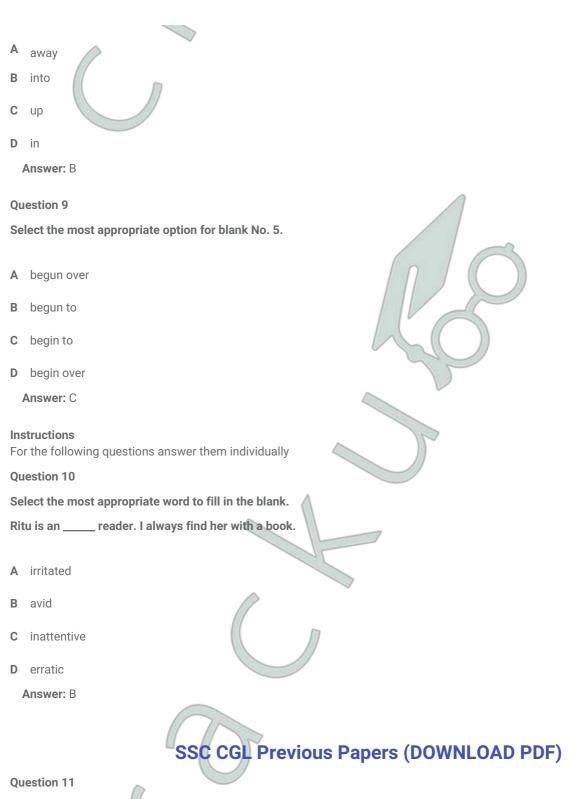
SSC CHSL Free Mock Test		
Ins	etructions	
	the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most propriate option for each blank.	
(2)	her life Ms. Foster had a great fear of missing a train, a plane, a boat or (1) a theatre curtain. In other respects, she was not a nervous woman. But the mere thought of (3) on occasions like these would throw her (4) such a nervous state at a tiny muscle in the corner of her left eye would (5) twitch . This would disappear once she had boarded the plane etc.	
Qι	estion 5	
	hardly	
В	even	
С	extremely	
D	quite	
	Answer: B	
Qι	estion 6	
Select the most appropriate option for blank No. 2.		
Α	particularly	
В	usual	
С	general	
D	particular	
	Answer: A	
Question 7		
Se	lect the most appropriate option for blank No. 3.	
Α	being late	
В	be later	
С	be late	
D	being later	

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Question 8

Answer: A

Select the most appropriate option for blank No. 4.



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'.

For the last two years Shweta has being diligently working with Rohingya refugees to create colourful table mats using their local weaving techniques.

- A have been
- **B** have being
- **C** No improvement
- **D** has been

Answer: D

Given below are four jumbled sentences. Pick the option that gives their correct order.

- A. Finally, she takes the decision to go searching for livelihood in the nearby town.
- B. They are: Lakua and his wife, Nathuni.
- C. The latter, burdened with a paralytic husband and two children, battles to survive.
- D. The film 'Wayfarers' narrates the journey of a poor couple in Jharkhand.
- A DBCA
- **B** DBAC
- C CDAB
- **D** BACD

Answer: A

Question 13

In the sentence identify the segment which contains the grammatical error.

You must make a choice immediately because there is few time left.

- A a choice immediately
- B because there is
- C few time left
- D You must make

Answer: C

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Question 14

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

Happening every two years

- **A** Biannual
- **B** Biennial
- **C** Centennial
- **D** Triennial

Answer: B

Question 15

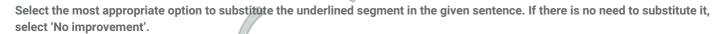
Select the most appropriate ANTONYM of the given word.

PROLIFIC

- A Unproductive
- **B** Abundant



- C SeveralD RichAnswer: A
- Question 16



The Delhi Birla International School alumnus occupy leading positions in different areas of profession and service.

- A alumni occupy
- B alumnus occupying
- C alumnus occupies
- **D** No improvement

Answer: A

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Question 17

Select the most appropriate meaning of the given idiom.

Full of sound and fury

- A An angry and unruly mob
- B Someone who gets angry very quickly
- C Merely loud and angry words but ineffective
- D A fiery and effective speaker

Answer: C

Question 18

Given below are four jumbled sentences. Pick the option that gives their correct order.

- A. The Emperor would view the comic acts from the jharokha, a special window of his palace.
- B. On the festival of Holi, the Emperor was entertained with mimicry, impersonation and play-acting.
- C. Bahadur Shah Jafar's life and times are described in a book called 'City of my heart.'
- D. Finally, the most talented of the performers would be generously awarded by the king.
- A ADBC
- B CBAD
- C DACB
- **D** CDBA

Answer: B

Ouestion 19

Select the correct passive form of the given sentence

Chhattisgarh organised the first ever 'All India Folk Dance Festival' in January 2020.

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A The first ever 'All India Folk Dance Festival' was organised by the Chhattisgarh State in January 2020.
 B The first ever 'All India Folk Dance Festival' was being organised by the Chhattisgarh State in January 2020.
 C The first ever 'All India Folk Dance Festival' had been organised by the Chhattisgarh State in January 2020.

The first ever 'All India Folk Dance Festival' will be organised by the Chhattisgarh State in January 2020.

Answer: A

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Question 20

Select the most appropriate synonym of the given word.

PEDIGREE

- A Forbidden
- **B** Illegitimate
- **C** Lineage
- **D** Mongrel

Answer: C

Question 21

In the sentence identify the segment which contains the grammatical error.

Subhash Gidwani is selling dolls, which are type of Madhya Pradesh's village culture, at the Annual Dastakar Bazaar, held in January every year in Delhi.

- A which are type of Madhya Pradesh's village culture
- B held in January every year in Delhi
- C Subhash Gidwani is selling dolls
- **D** in the annual Dastakar Bazaar

Answer: A

Question 22

Select the most appropriate synonym of the given word.

CONGENIAL

- A Compatible
- **B** Bombastic
- C Aloof
- **D** Servile

Answer: A

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Ouestion 23

Select the correct indirect form of given sentence.

The foreigner said to the farmer, "Can you tell me the way to the nearest hotel?"

- A The foreigner exclaimed with the farmer if he could tell him the way to the nearest hotel.
- B The foreigner suggested the farmer if he could tell him the way to the nearest hotel.
- C The foreigner enquired of the farmer if he could tell him the way to the nearest hotel.
- D The foreigner told the farmer if he could tell him the way to the nearest hotel.

Answer: C

Question 24

Select the most appropriate ANTONYM of the given word.

PACIFIST

- A Orator
- **B** Peace-maker
- **C** Warmonger
- **D** Nihilist

Answer: C

Question 25

Select the INCORRECTLY spelt word.

- A Expanse
- **B** Resultant
- **C** Constraint
- **D** Conscentious

Answer: D

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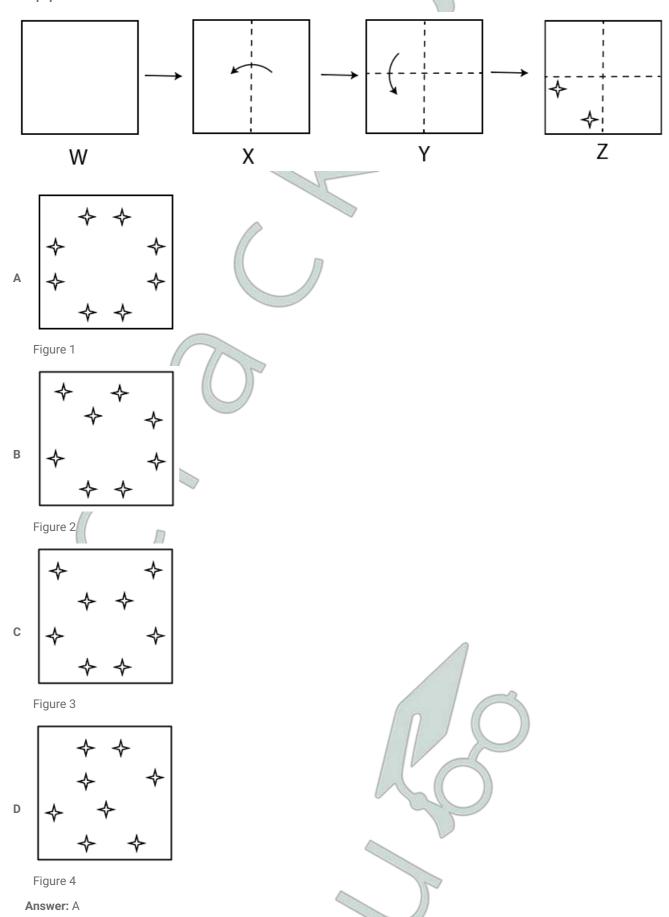
General Intelligence

Instructions

For the following questions answer them individually



The sequence of folding a paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



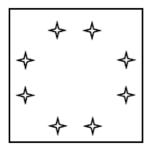
Explanation:

When the paper is unfolded, the pattern of cutting will be similar in the four parts of the paper.

When the paper is unfolded first to the top, two stars will appear similarly on the top.

When the paper is unfolded again to the right, two stars each will appear similarly in the top right and bottom right part of the paper.

... When the paper is unfolded it will appear as shown below

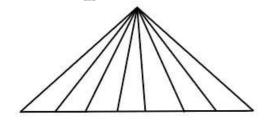


Hence, the correct answer is Option A

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Question 27

How many triangles are there in the following figure?



A 14

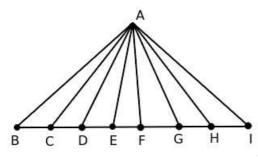
B 20

C 24

D 28

Answer: D

Explanation:



The different triangles in the given figure are ABC, ACD, ADE, AEF, AFG, AGH, AHI, ABD, ACE, ADF, AEG, AFH, AGI, ABE, ACF, ADG, AEH, AFI, ABF, ACG, ADH, AEI, ABG, ACH, ADI, ABI

... The number of triangles in the given figure = 28

Hence, the correct answer is Option D

Question 28

Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series. dabx_dab__d_b_xdab_x_

A axdaxxd

R xxxaxxd

C xxcbxad

D dxadadd

Answer: B

Explanation:

By Trial and Error method,

Option A

dabxa | dabxd | dabxx | dabxx | d

The above letters do not form a series. Hence option A is incorrect.

Option B

dabxx | dabxx |dabxx | dabxx | d

The above letters form a series.

Hence, the correct answer is Option B

Question 29

Select the correct combination of mathematical signs to replace 'A' sequentially and balance the following equation.

40 A 2 A 3 A 4 A 15



$$\mathbf{B} \div, \times, =, \times$$

$$\mathsf{c} \times, \div, +, =$$

$$D \times, =, -, \div$$

Answer: B

Explanation:

By Trial and Error method,

Option A

$$40 \div 2 \times 3 = 4 - 15$$

$$20 \times 3 = 4 - 15$$

$$60 = 4 - 15$$

$$60 = -11$$

Hence Option A is incorrect

Option B

$$40 \div 2 \times 3 = 4 \times 15$$

$$20 \times 3 = 4 \times 15$$

$$60 = 60$$

Hence, the correct answer is Option B

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Question 30

In a certain code language, 'TRAFFIC' is written as 'VTCHHKE'. How will 'POLICE' be written as in that language?

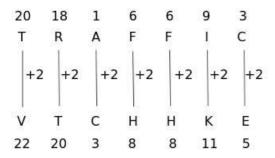
- **A** RQNKEG
- **B** RMNGEC
- C ONKHBD
- **D** RMIGEC

Answer: A

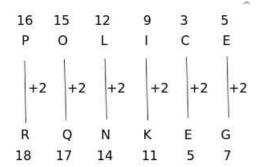
Explanation:

Given, TRAFFIC is written as VTCHHKE in the code language

The logic here is



Similarly,



... POLICE is written as RQNKEG in the code language.

Hence, the correct answer is Option A

Question 31

In certain code language, 'TELEVISION' is written as 'OPJTJWFMFU'. How will 'REMOTE' be written as in that language?

- A SFNPUF
- **B** PUPFNS
- **C** FUPNFS
- **D** ETOMER

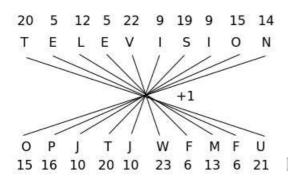
Answer: C

Explanation

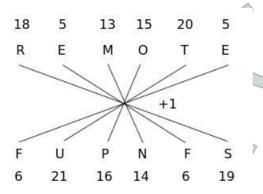
Given, TELEVISION is written as OPJTJWFMFU in the code language

The logic here is





Similarly,



∴ REMOTE is written as FUPNFS in the code language.

Hence, the correct answer is Option C

Question 32

The rate of onion increased from ₹ 70 per kilogram to ₹ 120 per kilogram within a month. By what percentage (approximate) did the rate of onion increase?

A 75.2%

B 65%

C 80%

D 71.5%

Answer: D

Explanation:

Percentage increase in the rate of onion = $\frac{120-70}{70} \times 100$

$$= {}^{50}_{70} \times 100$$

= 71.43%

= 71.5% (approximately)

Hence, the correct answer is Option D

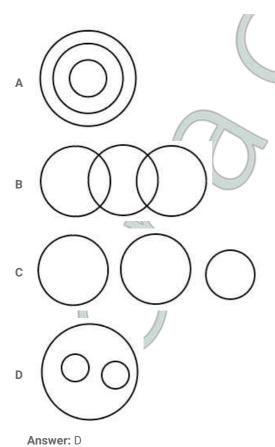


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Question 33

Select the Venn diagram that best represents the relationship between the following classes.

Dirham, USD, Currency



Dirham and USD are different currencies of different countries.

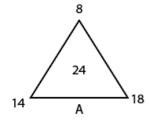
... The Venn diagram that best represents the relationship between the given classes is

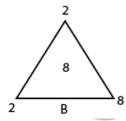


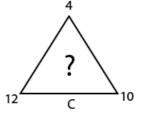
Hence, the correct answer is Option D

Question 34

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







- **A** 6
- **B** 22
- **C** 2
- **D** 18

Answer: D **Explanation:**

From the figure A,

14 + 18 - 8 = 24

From the figure B,

2 + 8 - 2 = 8

The logic here is

bottom left number + bottom right number - top number = middle number

Similarly, from the figure C

The required number = 12 + 10 - 4 = 18

Hence, the correct answer is Option D

Question 35

Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first lettercluster.

COAT: APZV:: ROAD:?

- **PQZF**
- PPZF
- TNCC
- SPBE

Answer: B

Explanation:

Given, APZV is related to COAT

The logic here is

C - 2 = A

0 + 1 = P

A - 1 = Z

T + 2 = V

Using the same logic,

R - 2 = P

0 + 1 = P

A - 1 = Z

D + 2 = F

.: PPZF is related to ROAD in the same way APZV is related to COAT.

Hence, the correct answer is Option B

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Question 36

Introducing a boy, I said, "His mother is the only daughter of my mother in law". How am I related to the boy?

Brother

B Father

C Nephew

D Brother-in-law

Answer: B

Explanation:

Only daughter of mother in law is wife.

According to the question,

Boy's mother is the only daughter of the person's mother in law.

 \Rightarrow Boy's mother is the wife of the person.

... The person is the father of the boy.

Hence, the correct answer is Option B

Question 37

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

6, 7, 16, 51, 208, ?

A 2000

B 1250

C 1045

D 2570

Answer: C

Explanation:

The logic here is

$$(6 \times 1) + 1 = 7$$

$$(7 \times 2) + 2 = 16$$

$$(16 \times 3) + 3 = 51$$

$$(51 \times 4) + 4 = 208$$

Similarly, the next number in the series = $(208 \times 5) + 5 = 1040 + 5 = 1045$

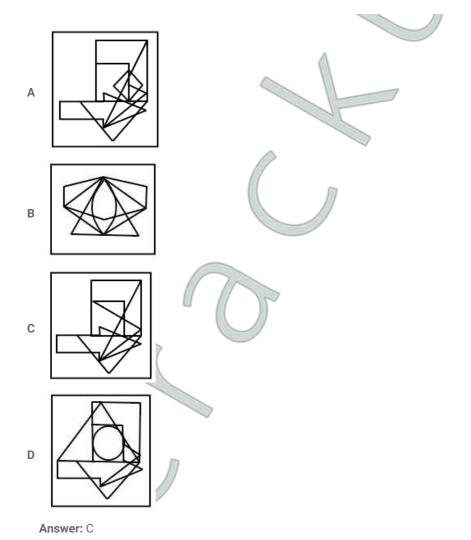
Hence, the correct answer is Option C

Question 38

Select the option in which the given figure is embedded. (Rotation is not allowed)







The given figure is embedded in the third figure as shown below



Hence, the correct answer is Option C

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Question 39

Four numbers have been given, out of which three are alike in some manner and one is different. Select the one that is different.

- **A** 676
- **B** 216
- **C** 125
- **D** 729

Answer: A

Explanation:



The logic here is

$$676 = 26^2$$

$$216 = 6^3$$

$$125 = 5^3$$

$$729 = 9^3$$

The numbers 216, 125, 729 are cubes of different numbers whereas 676 is square of a number.

... 676 is the different one among the given numbers.

Hence, the correct answer is Option A

Question 40

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follows from the statements.

Statements:

- 1. All malls are kings.
- 2. No king is a heater.

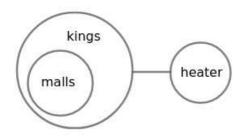
Conclusions:

- I. No mall is a heater.
- II. All kings are malls.
- A Either conclusion I or II follows.
- B Only conclusion II follows.
- C Only conclusion I follows.
- D Neither conclusion I nor II follows.

Answer: C

Explanation:

The basic diagram for the given statements is



I. No mall is a heater

From the basic diagram, no mall is a heater. Hence conclusion I follows.

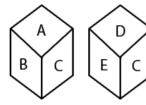
II. All kings are malls

From the basic diagram, all kings are not malls. Hence conclusion II do not follow.

... Only conclusion I follows the given statements.

Hence, the correct answer is Option C

Two different positions of the same dice shown here. Select the letter that will be on the face opposite to the one showing the letter 'C'.





B F

C B

D A

Answer: B

Explanation:

From the first position of dice, C is not opposite to A and B

From the second position of dice, C is not opposite to D and E

 \Rightarrow C is opposite to the remaining letter F

... F will be the letter on the face opposite to the one showing the letter C

Hence, the correct answer is Option B

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Question 42

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

Time: Second:: Length:?

A Long

B Distance

C Meter

D Measuring Rule

Answer: C

Explanation:

Second is the unit of Time. Similarly, Meter is the unit of Length.

... Meter is related to Length in the same way Second is related to Time.

Hence, the correct answer is Option C

Question 43

Select the option in which the numbers share the same relationship as that shared by the given number-pair.

4:25

A 12:120

B 11:170

C 6:36

D 6:49

Answer: D

Explanation:

The logic here is

$$25 = 5^2 = (4+1)^2 \longrightarrow \text{ second number} = (\text{first number} + 1)^2$$

Similarly.

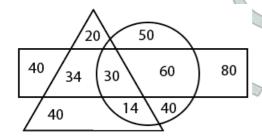
$$49 = 7^2 = (6+1)^2 \longrightarrow \text{ second number} = (\text{first number} + 1)^2$$

... 6:49 share the same relationship as 4:25

Hence, the correct answer is Option D

Ouestion 44

Study the given Venn diagram carefully and answer the following question.



= Persons who use bike

= Persons who use car

= Persons who use bicycle

How many persons use both a bicycle and a bike but not a car?

A 30

B 14

C 34

D 40

Answer: C

Explanation:

From the Venn diagram,

Number of persons who use both bicycle and bike but not car = Intersection triangle and rectangle but not circle = 34

Hence, the correct answer is Option C

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Question 45

Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

- A HJSO
- **B** BEYV
- C NOPE
- **D** MONL

Answer: C

Explanation:

In letter-clusters HJSQ, BEYV, MONL, first letter and third letter are opposite letters to each other, second letter and fourth letter are opposite letters to each other.

In NOPE, letters do not follow the above logic

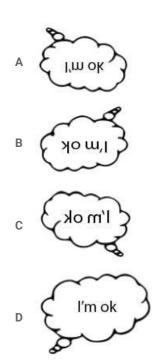
.: NOPE is the odd letter-cluster among the given letter-clusters.

Hence, the correct answer is Option C

Question 46

Select the correct mirror image of the given figure.





Explanation:

Answer: C

When the mirror is placed on the right side of the given figure,

The facing of the figure to the left and right direction changes to the opposite direction in the mirror image(left facing changes to right and vice versa). There won't be change in top and bottom direction.

Letter I which is on the left side of the figure will be on the right side in the mirror image.

The letter m which is open towards bottom will be open towards bottom in the mirror image.

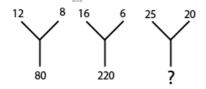
... The mirror image of the given figure is



Hence, the correct answer is Option C

Question 47

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





B 210

C 225

D 241

Answer: C

Explanation:

The logic here is

 $12^2 - 8^2 = 144 - 64 = 80 \longrightarrow \text{left number}^2 - \text{right number}^2 = \text{bottom number}$

 $16^2 - 6^2 = 256 - 36 = 220 \longrightarrow \text{left number}^2 - \text{right number}^2 = \text{bottom number}^2$

Similarly, the required number = $25^2-20^2=625-400=225$

Hence, the correct answer is Option C

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Question 48

Arrange the given words in a logical and meaningful sequence.

1. Earth

2. Saturn

3. Jupiter

4. Mercury

5. Venus6. Mars

A 5, 4, 3, 2, 1, 6

B 4, 5, 1, 6, 3, 2

C 6, 3, 4, 1, 2, 5

D 3, 1, 4, 2, 5, 6

Answer: B

Explanation;

The order of the planets in the solar system, starting nearest to the sun to the farthest is Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.

. The logical and meaningful order of the given words is Mercury, Venus, Earth, Mars, Jupiter, Saturn.

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

- A Istanbul
- **B** Maputo
- C London
- **D** Paris

Answer: A

Explanation:

Maputo is the capital of Mozambique.

London is the capital of England.

Paris is the capital of France.

Istanbul is a city in Turkey.

Maputo, London, Paris are capital cities of different countries whereas Istanbul is not capital city of Turkey.

 \therefore Istanbul is the odd one among the given words

Hence, the correct answer is Option A

Question 50

'TQUS' is related to 'UPVR' in the same way as 'FIRE' is related to

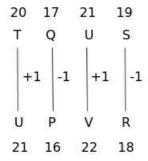
- A GHSD
- **B** GIRG
- **C** GIRF
- **D** GHRD

Answer: A

Explanation:

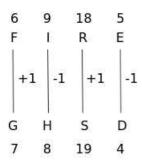
Given, TQUS is related to UPVR

The logic here is



Similarly,







Hence, the correct answer is Option A

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Quantitative Aptitude(Basic Arithmetic Skill)

Instructions

For the following questions answer them individually

Question 51

In a group of 150 people, $\frac{2}{5}$ are men, $\frac{1}{3}$ are women and the rest are children. The average age of the women is $\frac{4}{5}$ of the average age of the men. The average age of the children is $\frac{1}{5}$ of the average age of the men is 50 years, then the average age of all the people in the group is:

- A 35 years
- B 32 years
- C 28 years
- D 36 years

Answer: D

Explanation:

Total number of people = 150

Number of men = $\frac{2}{5} \times 150 = 60$

Average age of men = 50

 \Rightarrow Sum of the ages of men = 50 x 60 = 3000

Number of women = $\frac{1}{3} \times 150 = 50$

The average age of the women is $\begin{smallmatrix} 4 \\ 5 \end{smallmatrix}$ of the average age of the men

- \Rightarrow Average age of women = ${}^{4}_{5} \times 50 = 40$
- \Rightarrow Sum of the ages of women = 40 x 50 = 2000

Number of children = 150 - 60 - 50 = 40

The average age of the children is $\frac{1}{5}$ of the average age of the men

- \Rightarrow Average age of children = ${}^{1}_{5} \times 50 = 10$
- \Rightarrow Sum of the ages of children = 10 x 40 = 2000

Sum of ages of all the people = 3000 + 2000 + 400 = 5400

 \therefore Average age of all the people = ${}^{5400}_{150}$ = 36 years

Hence, the correct answer is Option D

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Question 52

A sum at simple interest becomes two times in 8 years at a certain rate of interest p.a. The time in which the same sum will be 4 times at the same rate of interest at simple interest is:

- A 25 years
- B 20 years
- C 30 years
- D 24 years

Answer: D

Explanation:

Let the principal amount = F

Rate of interest = R

Time = 8 years

Amount = 2P

⇒ 2P = Principal amount + Simple Interest

$$\Rightarrow$$
 2P = P + $\frac{P \times 8 \times F}{100}$

$$\Rightarrow$$
 P = ${P \times 8 \times R} \atop 100$

$$\Rightarrow$$
 R = 12.5%

Let the time in which sum will be 4 times at the same rate of interest = T

i.e, Amount = 4P

$$\Rightarrow$$
 4P = P + $\stackrel{P \times T \times 12.5}{100}$

$$\Rightarrow$$
 3P = $^{\mathrm{P} \times \mathrm{T} \times 12.5}_{100}$

$$\Rightarrow$$
 3 = ${}^{\mathrm{T}}_{8}$

$$\Rightarrow$$
 T = 24 years

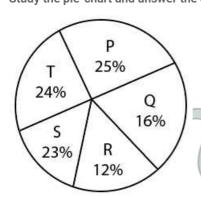
... The time in which the same sum will be 4 times at the same rate of interest = 24 years

Hence, the correct answer is Option D

Question 53

The pie-chart shows the percentage-wise distribution of the number of students in five different schools P, Q, R, S and T. The total number of students in all five schools together is 10,500.

Study the pie-chart and answer the question.



The difference between the central angles corresponding to schools T and R is:

From the pie-chart,

Central angle corresponding to school T = $^{24}_{100}$ \times 360° = 86.4°

Central angle corresponding to school R = $^{12}_{100} \times 360^{\circ}$ = 43.2°

 \therefore The difference between the central angles corresponding to schools T and R = $86.4^{\circ}-43.2^{\circ}=43.2^{\circ}$

Hence, the correct answer is Option C

Question 54

If $sin(A - B) = \frac{1}{2}$ and $cos(A + B) = \frac{1}{2}$ where A > B > 0 ° and A + B is an acute angle, then the value of A is:

A 30°

B 60°

 C 45°

D 15°

Answer: C

Explanation:

Given, $sin(A - B) = \frac{1}{2}$

 \Rightarrow sin(A - B) = sin 30 $^{\circ}$

 \Rightarrow A - B = 30°(1)

 $cos(A + B) = {1 \over 2}$ and A + B is an acute angle

 \Rightarrow cos(A + B) = cos 60 $^{\circ}$

 \Rightarrow A + B = 60 $^{\circ}$ (2)

Adding equations (1) and (2),

 $2A = 90^{\circ}$

 \Rightarrow A = 45 $^{\circ}$

Hence, the correct answer is Option C

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Question 55

If $a^3 + b^3 = 62$ and a + b = 2, then the value of ab is:

A -6

В

Given,
$$a+b=2$$

$$a^3 + b^3 = 62$$

$$\Rightarrow (a+b)(a^2-ab+b^2)=62$$

$$\Rightarrow$$
 (2) $(a^2 + 2ab + b^2 - 3ab) = 62$

$$\Rightarrow (a+b)^2 - 3ab = 31$$

$$\Rightarrow (2)^2 - 3ab = 31$$

$$\Rightarrow 4 - 3ab = 31$$

$$\Rightarrow 3ab = -27$$

$$\Rightarrow ab = -9$$

Hence, the correct answer is Option D

Question 56

The areas of three adjacent faces of a cuboid are 30 cm², 20 cm² and 24 cm². The volume of the cuboid is:



C
$$180 \text{ cm}^3$$

D
$$150 \text{ cm}^3$$

Answer: B

Explanation:

Let the length, breadth, height of the cuboid are I, b, h respectively

Given, the areas of three adjacent faces of a cuboid are 30 cm 2 , 20 cm 2 and 24 cm 2

$$\Rightarrow$$
 lb x bh x lh = 30 x 20 x 24

$$\Rightarrow$$
 (lbh)² = 14400

$$\Rightarrow$$
 lbh = 120 cm³

 \therefore Volume of the cuboid = lbh = 120 cm³

Hence, the correct answer is Option B

Question 57

When a number is divided by 14, the remainder is 9. If the square of the same number is divided by 14, then the remainder will be:

A 11

B 9

C 8

D 10

Answer: A

Given, When the number is divided by 14, the remainder is 9

Let the number = 14k + 9

Square of the number = $(14k + 9)^2$

$$= 196k^2 + 252k + 81$$

$$= 196k^2 + 252k + 70 + 11$$

$$= 14(14k^2 + 18k + 5) + 11$$

$$= 14p + 11$$

... When the square of the number is divided by 14, the remainder is 11

Hence, the correct answer is Option A

SSC CHSL Study Material

Question 58

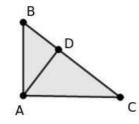
In a \triangle ABC, \angle BAC = 90° and AD is perpendicular to BC where D is a point on BC. If BD = 4 cm and CD = 5 cm,then the length of AD is equal to:

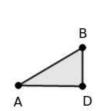


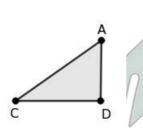
$$\mathbf{B} \quad 2\sqrt{5} \text{ cm}$$

Answer: B

Explanation:









$$\angle A = 90^{\circ}$$

$$\Rightarrow \angle B = 90^{\circ} - \angle C$$

AD is perpendicular to BC

$$\Rightarrow$$
 \angle ADC = 90 $^{\circ}$

In \triangle ADC,

$$\angle ADC = 90^{\circ}$$

$$\Rightarrow \angle DAC = 90^{\circ} - \angle C$$

In
$$\triangle$$
ADB and \triangle CDA,

$$\angle$$
B = \angle DAC = 90° - \angle C

$$\angle$$
BDA = \angle ADC = 90 $^{\circ}$

Two angles are equal for both the triangles, \triangle ADB is similar to \triangle CDA

Ratio of respective sides are equal in both the triangles

$$\Rightarrow \stackrel{BD}{AD} = \stackrel{AD}{CD}$$

$$\Rightarrow$$
 AD² = BD.CD

$$\Rightarrow$$
 AD² = 4 x 5

$$\Rightarrow$$
 AD² = 20

$$\Rightarrow$$
 AD = $2\sqrt{5}$ cm

Hence, the correct answer is Option B

Question 59

On selling 26 balls for ₹ 1,350, there is a loss equal to the cost price of eight balls. The cost price of a ball is:

- **A** ₹60
- **B** ₹65
- **C** ₹75
- **D** ₹70

Answer: C

Explanation:

Let the cost price of 1 ball = c

Cost price of 26 balls = 26c

Given, Selling price of 26 balls = ₹ 1350

Loss = 8c

$$\Rightarrow$$
 18c = 1350

∴ Cost price of a ball = ₹ 75

Hence, the correct answer is Option C

Question 60

The speed of a train is 220% of the speed of a car. The car covers a distance of 950 km in 19 hours. How much distance will the train cover in $3\frac{1}{2}$ hours?



B 385 km

C 375 km

D 285 km

Answer: B

Explanation:

Speed of the car = 95019 = 50 km/h

Given, speed of the train is 220% of the speed of the car

$$\Rightarrow$$
 Speed of the train = $^{220}_{100}\times50$ = 110 km/h

... Distance covered by the train in $3\frac{1}{2}$ hours = $110 \times 3\frac{1}{2}$ = $110 \times \frac{7}{2}$ = 385 km

Hence, the correct answer is Option B

SSC CHSL Free App

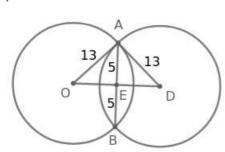
Question 61

The circles of same radius 13 cm intersect each other at A and B. If AB = 10 cm, then the distance between their centres is:

- **A** 18 cm
- **B** 12 cm
- C 24 cm
- **D** 26 cm

Answer: C

Explanation:



Given, AB = 10 cm

AB is the common chord for both the circles and OD will be the perpendicular bisector of AB.

$$\Rightarrow$$
 AE = EB = 5 cm

In △ AOE,

$$OE^2 + AE^2 = OA^2$$

$$\Rightarrow$$
 OE² + 5² = 13²

$$\Rightarrow$$
 OE² + 25 = 169

$$\Rightarrow$$
 OE² = 144

Similarly, in $\triangle AED$

$$ED = 12 cm$$

 \therefore Distance between the centres of the circles = OD = OE + ED = 12 + 12 = 24 cm

Hence, the correct answer is Option C

Question 62

The value of $\begin{smallmatrix} 33 \\ 40 \end{smallmatrix} + \begin{smallmatrix} 1 \\ 5 \end{smallmatrix} \left[\begin{smallmatrix} 4 \\ 5 \end{smallmatrix} - \begin{smallmatrix} 1 \\ 5 \end{smallmatrix} \times \left(\begin{smallmatrix} 7 \\ 8 \end{smallmatrix} - \begin{smallmatrix} 5 \\ 4 \end{smallmatrix}\right)\right]$ is:

- **A** 10
- **B** 0
- C 1
- **D** 5

Answer: C

$$= {\textstyle \frac{33}{40}} + {\textstyle \frac{1}{5}} \left[{\textstyle \frac{4}{5}} - {\textstyle \frac{1}{5}} \times \left({\textstyle \frac{-3}{8}} \right) \right]$$

$$= {{33}\atop{40}} + {{1}\atop{5}} \left[{{4}\atop{5}} - \left({{{-3}\atop{40}}} \right) \right]$$

$$= {{33}\atop{40}} + {{1}\atop{5}} \left[{{5}\atop{5}} + {{3}\atop{40}} \right]$$

$$= { 33 \atop 40} + { 1\atop 5} \left[{ 32+3 \atop 40} \right]$$

$$= {33 \atop 40} + {1 \atop 5} {35 \atop 40}$$

$$= {}^{33}_{40} + {}^{7}_{40}$$

$$= 40 + 40$$

$$={}^{40}_{40}$$

= 1

Hence, the correct answer is Option C

Question 63

The marked price of an article is 25% more than its cost price. If 10% discount is given on the marked price, then what is the profit percentage?

- 12.5%
- 11.5%
- 12%
- 10%

Answer: A

Explanation:

Let the cost price of the article = C

Given, Marked price of the article is 25% more than its cost price

$$\Rightarrow\,$$
 Marked price of the article = $\,^{125}_{100}\,\mathrm{C}$ = $\,^{5}_{4}\,\mathrm{C}$

Discount% = 10%

Selling price of the article = $^{90}_{100}$ \times $^{5}_{4}$ C = $^{9}_{8}$ C

$$\therefore \text{ Profit Percentage} = {\overset{9}{8}} {\overset{C-C}{C}} \times 100 = {\overset{1}{8}} \times 100 = 12.5\%$$

Hence, the correct answer is Option A

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Question 64

If $\sec\theta + \tan\theta = 5$ and θ is an acute angle, then the value of $3\cos^2\theta + 1\cos\theta = 3\cos^2\theta + 1\sin\theta$ is:

- 4
- 3
- 2 D

Answer: A

$$\sec heta + an heta$$
 Given, $\sec heta - an heta = 5$

$$\Rightarrow \sec \theta + \tan \theta = 5 \sec \theta - 5 \tan \theta$$

$$\Rightarrow 6 \tan \theta = 4 \sec \theta$$

$$\Rightarrow 6 \overset{\sin heta}{\cos heta} = 4 \overset{1}{\cos heta}$$

$$\Rightarrow \sin \theta = \frac{2}{3}$$

$$\cos^2 \theta = 1 - \sin^2 \theta = 1 - {2 \choose 3}^2 = {5 \choose 9}$$

$$3\cos^{2}\theta + 1
3\cos^{2}\theta - 1 = 3\begin{pmatrix} 5 \\ 9 \end{pmatrix} + 1$$

$$\frac{5}{3} + 1$$

$$=4$$

Hence, the correct answer is Option A

Question 65

If $\sin(\theta+30^\circ)=\frac{3}{\sqrt{12}}$, then the value of $\,\theta$ is equal to:

- A 15°
- B 60°
- \mathbf{C} 30°
- D 45°

Answer: C

Explanation:

Given,
$$\sin(heta+30^\circ)=\sqrt[3]{12}$$

$$\Rightarrow \, \sin(\theta + 30^\circ) = \, {}^{3}_{2\sqrt{3}}$$

$$\Rightarrow \sin(\theta + 30^\circ) = {\textstyle \frac{\sqrt{3}\times\sqrt{3}}{2\sqrt{3}}}$$

$$\Rightarrow \, \sin(heta + 30^\circ) = \, {rac{\sqrt{3}}{2}}$$

$$\Rightarrow \, \sin(\theta + 30^\circ) = \sin 60^\circ$$

$$\Rightarrow \theta + 30^{\circ} = 60^{\circ}$$

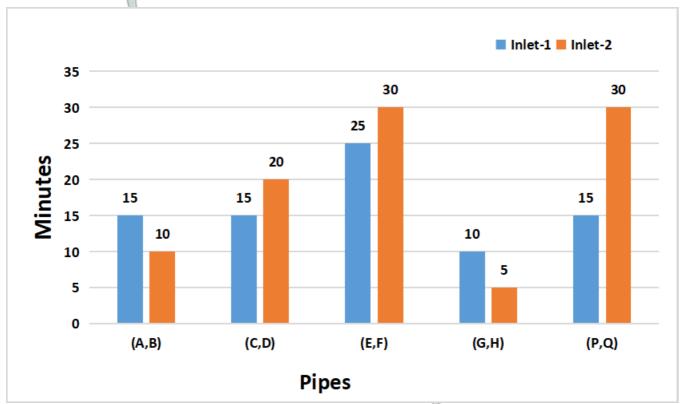
$$\Rightarrow$$
 $\theta=30^{\circ}$

Hence, the correct answer is Option C



Study the following graph and answer the given question.

The graph shows the time (in minutes) taken by the pipes (A, B), (C, D), (E, F), (G, H) and (P, Q) to fill a tank.



Two pipes P and Q are inlet pipes. If they are opened at alternate minutes and if pipe P is opened first, then in how many minutes will the tank be full?

- A 18 minutes
- **B** 30 minutes
- C 16 minutes
- **D** 20 minutes

Answer: D

Explanation:

From the graph,

Time taken by the pipe P to fill the tank = 15 minutes

Time taken by the pipe Q to fill the tank = 30 minutes

Let the Volume of the tank = 30 units (LCM of 15 and 30)

Volume filled by pipe P in 1 min = 2 units

Volume filled by pipe Q in 1 min = 1 unit

If they are opened at alternate minutes,

Volume filled by pipes P and Q in 2 min = 2 + 1 = 3 units

Time required to fill the tank = $\frac{30}{3} \times 2 = 20$ minutes

Hence, the correct answer is Option D

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If $x=\sqrt[\sqrt{3}]{2}$, then the value of $\sqrt[\sqrt{1+x}+\sqrt{1-x}]{1+x}$ is equal to:

- A $\sqrt{2}$
- B $\sqrt{3}$
- **C** 3
- **D** 2

Answer: B

Explanation:

Given,
$$x={\scriptsize \begin{array}{c} \sqrt{3} \\ 2 \end{array}}$$

$$\begin{array}{c} \sqrt{1+x}+\sqrt{1-x} \\ \sqrt{1+x}-\sqrt{1-x} \end{array} \equiv \begin{array}{c} \sqrt{1+x}+\sqrt{1-x} \\ \sqrt{1+x}-\sqrt{1-x} \end{array} \times \begin{array}{c} \sqrt{1+x}+\sqrt{1-x} \\ \sqrt{1+x}+\sqrt{1-x} \end{array}$$

$$= 1 + x + 1 - x + 2\left(\sqrt{1+x}\right)\left(\sqrt{1-x}\right)$$

$$= 1 + x - (1-x)$$

$$= 2 + 2\left(\sqrt{1 - x^2}\right)$$

$$= 2x$$

$$=rac{1+\sqrt{1-x^2}}{x}$$

$$\sqrt{3}$$

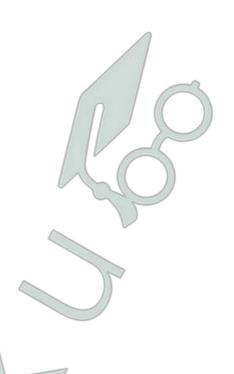
$$1+\sqrt{1-\frac{3}{4}}$$

$$= \begin{array}{c} 1 + \frac{1}{2} \\ = 2 \end{array}$$

$$= \frac{3}{2} \times \sqrt{3}$$

$$\equiv \sqrt{3}$$

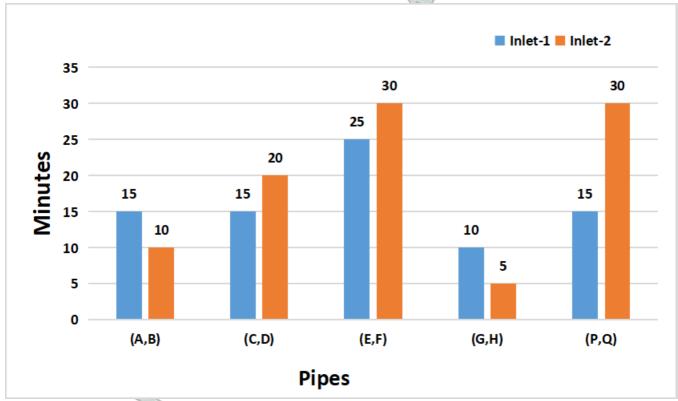
Hence, the correct answer is Option B





Study the following graph and answer the given question.

The graph shows the time (in minutes) taken by the pipes (A, B), (C, D), (E, F), (G, H) and (P, Q) to fill a tank.



In how many minutes is an empty tank filled completely if pipe D fills it for half the time and then for the other half time, pipes C and D fill it together?

- A 18 minutes
- B 10 minutes
- C 15 minutes
- **D** 12 minutes

Answer: D

Explanation:

From the graph,

Time taken by the pipe C to fill the tank = 15 minutes

Time taken by the pipe D to fill the tank = 20 minutes

Let the Volume of the tank = 60 units(LCM of 15 and 20)

Volume filled by pipe C in 1 min = 4 units

Volume filled by pipe D in 1 min = 3 units

Volume filled by pipe C and D together in 1 min = 7 units

Since pipe D is working for first half time and pipe C and D together for next half time

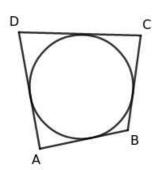
Volume filled by pipe D in 1 min + Volume filled by pipe C and D together in 1 min = 3 + 7 = 10 units

In 2 min, combination of these can fill 10 units of Volume

Time required to fill 60 units of Volume = $^{60}_{10} \times 2$ = 12 minutes

Hence, the correct answer is Option D

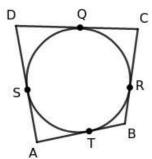
In the figure, a circle touches all the four sides of a quadrilateral ABCD whose sides AB = 6.5 cm, BC = 5.4 cm and CD = 5.3 cm. The length of AD is:



- **A** 4.6 cm
- **B** 5.8 cm
- **C** 6.2 cm
- **D** 6.4 cm

Answer: D

Explanation:



Given, AB = 6.5 cm, BC = 5.4 cm and CD = 5.3 cm

Let the circle touches AB, BC, CD, DA at T, R, Q, S respectively.

Length of tangents to the circle from an external point are equal.

AT = AS

BT = BR

CQ = CR

DQ = DS

Adding all of the above

$$AT + BT + CQ + DQ = AS + BR + CR + DS$$

$$\Rightarrow$$
 (AT + BT) + (CQ + DQ) = (AS + DS) + (BR + CR)

$$\Rightarrow$$
 AB + CD = AD + BC

$$\Rightarrow$$
 6.5 + 5.3 = AD + 5.4

 \Rightarrow AD = 6.4 cm

Hence, the correct answer is Option D





A is twice as good a workman as B and together they finish a piece of work in 22 days. In how many days will A alone finish the same work?

- A 30 days
- B 44 days
- C 33 days
- D 11 days

Answer: C

Explanation:

Let the total work = W

A is twice as good a workman as B

Let the number of days required for A alone to complete the work = a

 \Rightarrow Number of days required for B alone to complete the work = 2a

Work done by A in 1 day = $\begin{bmatrix} W \\ a \end{bmatrix}$

Work done by B in 1 day = $\frac{W}{2a}$

Given, A and B together finish the work in 22 days

$$\Rightarrow$$
 Work done by A and B together in 1 day = $^{W}_{22}$

$$\Rightarrow {\stackrel{W}{a}} + {\stackrel{W}{2}}{\stackrel{u}{a}} = {\stackrel{W}{22}}$$

$$\Rightarrow \begin{array}{c} 3 & 1 \\ 2a & = 22 \end{array}$$

... Number of days required for A alone to complete the work = 33 days

Hence, the correct answer is Option C

Question 71

What is the third proportional to 16 and 24?

- **A** 28
- **B** 34
- **C** 32
- **D** 36

Answer: D

Explanation:

Let the third proportional of 16 and 24 = a

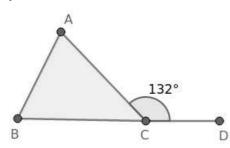
$$\Rightarrow \begin{array}{c} 16 \\ 24 \end{array} = \begin{array}{c} 24 \\ a \end{array}$$

$$\Rightarrow$$
 a = 36

... The third proportional of 16 and 24 = 36

Hence, the correct answer is Option D

Question 72



Given,
$$\angle ACD = 132^{\circ}$$
 and $\angle B = {7\over 7} \angle A$

In △ABC,

∠ACD is the external angle at C which is equal to the sum of opposite angles A and B.

$$\Rightarrow \angle ACD = \angle A + \angle B$$

$$\Rightarrow 132^{\circ} = \angle A + \overset{4}{7}\angle A$$

$$\Rightarrow 132^{\circ} = {}^{11}_{7} \angle A$$

$$\Rightarrow$$
 \angle A = 84°

Hence, the correct answer is Option C

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Question 73

If $\sqrt{x} = \sqrt{3} - \sqrt{5}$, then the value of $x^2 - 16x + 6$ is:

A 4

B 0

C 2

D -2

Answer: C

Explanation:

Given,
$$\sqrt{x}=\sqrt{3}-\sqrt{5}$$

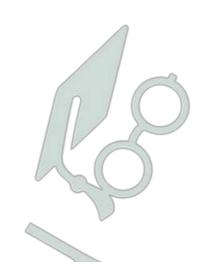
$$\Rightarrow x = \left(\sqrt{3} - \sqrt{5}\right)^2$$

$$\Rightarrow x = 3 + 5 - 2\sqrt{15}$$

$$\Rightarrow x = 8 - 2\sqrt{15}$$
(1)

$$\Rightarrow x^2 = \left(8 - 2\sqrt{15}\right)^2$$

$$\Rightarrow \, x^2 = 64 + 60 - 32\sqrt{15}$$



$$\Rightarrow x^2 = 124 - 32\sqrt{15}$$
(2)

$$\therefore x^2 - 16x + 6 = 124 - 32\sqrt{15} - 16\left(8 - 2\sqrt{15}\right) + 6$$

$$=124-32\sqrt{15}-128+32\sqrt{15}+6$$

$$= 130 - 128$$

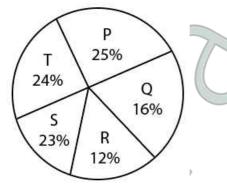
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Hence, the correct answer is Option C

Question 74

The pie-chart shows the percentage-wise distribution of the number of students in five different schools P, Q, R, S and T. The total number of students in all five schools together is 10,500.

Study the pie-chart and answer the question.



The number of students in school R is what per cent of the total number of students in schools Q and T together?

- **A** 40%
- **B** 35%
- C 25%
- **D** 30%

Answer: D

Explanation:

Given, total number of students in all schools = 10,500

From the pie-chart,

Number of students in school R = $^{12}_{100} \times 10500 = 1260$

Number of students in school Q and T together = $^{16+24}_{100} imes 10500 = ^{40}_{100} imes 10500 = 4200$

... Required percentage = $^{1260}_{4200} \times 100 = 30\%$

Hence, the correct answer is Option D

Question 75

If the price of an eraser is reduced by 25%, a person can buy three more erasers for ₹ 2. How many erasers can be bought for ₹ 2 as the original price?

- **A** 10
- **B** 8
- **C** 9
- **D** 12

Answer: C

Explanation:

Let the original price of 1 eraser = a

Number of erasers that can be bought for \mathbb{Z} 2 = a2

Price of 1 eraser when reduced by 25% = $\frac{75}{100}a = \frac{3}{4}a$

Number of erasers that can be bought for $\stackrel{3}{\stackrel{?}{=}} 2$ after reduction in price = $\stackrel{3^2}{\stackrel{4}{=}} \frac{8}{3a}$

According to the problem,

$$a + 3 = 3a$$

$$\Rightarrow \frac{8}{3a} - \frac{2}{a} \equiv 3$$

$$\Rightarrow \frac{2}{3a} = 3$$

$$\Rightarrow a = \overset{2}{9}$$

∴ Number of erasers that be bought for ₹2 with original price = $\begin{pmatrix} 2 & 2 \\ a & 9 \end{pmatrix} = 9$

Hence, the correct answer is Option C

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For the following questions answer them individually

Question 76

In which year did the first Elected Parliament with two houses come into being in India?

- **A** 1953
- **B** 1952
- C 1955
- **D** 1954

Answer: B

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Question 77

Which country ranked first in the 2019 Human Development India Index?

- **A** Norway
- **B** Switzerland
- **C** Germany
- **D** Ireland

Answer: A

How many Vedangas are there in total?

- A Two
- **B** Ten
- C Six
- **D** Five

Answer: C

Question 79

The first barcode system was developed by:

- A Norman Joseph Woodland
- **B** John Barger
- C David Bradley
- D John Mc Carthy

Answer: A



Question 80

Which of the following is the second largest artificial lake in Asia?

- A Kolleru Lake in Andhra Pradesh
- B Chilika Lake in Odisha
- C Dhebar Lake in Rajasthan
- D Chandubi Lake in Assam

Answer: C

Question 81

Which of the following was invented by Walter Hunt?

- A Ship
- **B** Scooter
- C Safety lamp
- **D** Safety pin

Answer: D

Question 82

The term 'monsoon' is derived from a/an:



A Italian word

Latin word

- C Greek word
- D Arabic word

Answer: D



Question 83

Who among the following is one of the Deputy Operations Director of the Mars Orbiter Mission (MOM)?

- A Nandini Harinath
- **B** Seetha Somasundaram
- C Minal Rohit
- **D** Moumita Dutta

Answer: A

Question 84

Which of the following characteristics of sound is measured in hertz (Hz)?

- A Loudness of the sound
- B Intensity of the sound
- C Wavelength of the sound
- **D** Frequency of the sound

Answer: D

Question 85

The Tropic of Cancer does NOT pass through which of the following Indian states?

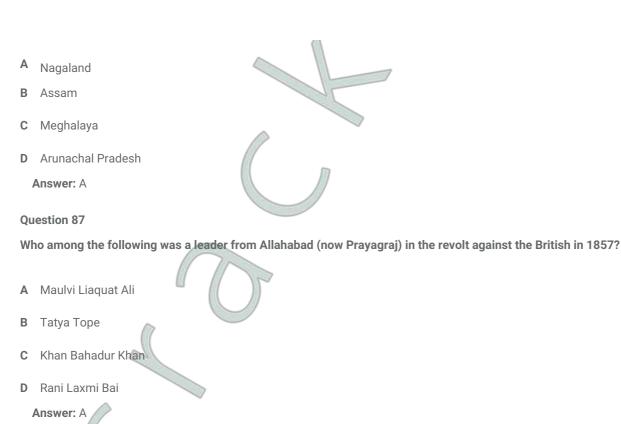
- A Madhya Pradesh
- **B** West Bengal
- **C** Gujarat
- D Andhra Pradesh

Answer: D



Question 86

The Hornbill Festival is celebrated in which state?



Who is author of the book 'The Judgement: Inside Story of the Emergency in India'?

- A KM Munshi
- **B** Jawaharlal Nehru
- C Indira Gandhi
- **D** Kuldip Nayar

Answer: D

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Question 89

Who among the following is nicknamed the 'Baltimore Bullet'?

- A Michael Phelps
- **B** Tom Jager
- C Ian Thorpe
- D Matt Biondi

Answer: A

Question 90

Trackball is which of the following devices?

- A Barcode reader
- **B** Touchpad



_	Output device	
	Input device	
	Answer: D	
Qι	estion 91	
Which country is the 2019 ICC Cricket World Cup champion?		
٨	Pakistan	
В	England	
С	India	
D	Australia	
	Answer: B	
	SSC CGL Free Mock Test (Latest Pattern)	
Qι	nestion 92	
Te	langana became the 29th state of India in which year?	
Α	2015	
В	2014	
С	2017	
D	2016	
	Answer: B	
Question 93		
The Bomdila Pass is located in which state?		
Α	Nagaland	
В	Arunachal Pradesh	
С	Sikkim	
D	Himachal Pradesh	
	Answer: B	
Question 94		
Who Inaugurated the National Tribal Festival "Aadi Mahotsav" in New Delhi in November 2019?		
Α	N. Sitharaman	
В	Amit Shah	
С	Narendra Modi	
D	Smriti Irani	

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Question 95

In January 2020, who among the following launched the first girder of the Mumbai Trans-Harbour Link (MTHL)?

- A Aaditya Thackeray
- **B** Bal Thackeray
- C Raj Thackeray
- **D** Uddhav Thackeray

Answer: D

Question 96

In which year did NITI Aayog come into existence?

- **A** 2014
- **B** 2016
- C 2015
- **D** 2013

Answer: C

Question 97

Who won the International Hockey Federation's (FIH) Player of the Year award in 2019?

- A Manpreet Singh
- **B** Dilip Tirkey
- C Dhyan Chand
- **D** Pargat Singh

Answer: A

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Question 98

In October 2019, which of the following pairs of Indian cities was included by UNESCO in its network of 'Creative Cities' on the occasion of World Cities Day 2019?

- A Hyderabad & Mumbai
- B Pune & Hyderabad
- C Delhi & Mumbai
- D Jodhpur & Kolkata



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