Reasoning

Instructions

For the following questions answer them individually

Question 1

Astronomy: Star::Geology:?

- A Sky
- **B** Geometry
- **C** Science
- D Earth

Answer: D

Explanation:

Expression = Astronomy: Star::Geology:?

Astronomy is the study of stars, similarly Geology is the study of Earth.

=> Ans - (D)

Question 2

Up:Down::Back:?

- A Left
- B Deep
- C Front
- D Right

Answer: C

Explanation:

Expression = Up:Down::Back:?

The given pairs are antonyms, i.e. up is the opposite of down, similarly opposite of back is front.

Question 3

If $4 \times 2 \times 6 = 1626$, $3 \times 7 \times 4 = 974$, then $5 \times 6 \times 8 = ?$

- A 3658
- B 2568
- C 5664
- D 6456

Answer: B

Explanation:

The pattern followed is that for the numbers : $a \times b \times c = a^2bc$

$$Eg : 4 \times 2 \times 6 = (4)^2 26 = 1626$$

and
$$3 \times 7 \times 4 = (3)^2 74 = 974$$

Similarly,
$$5 \times 6 \times 8 = (5)^2 68 = 2568$$

Instructions

In the following question, find the odd word from the given alternatives.

Question 4

- A Madam
- B Animal
- C Othello
- D Noun

Answer: D

Explanation:

Madam, Othello and animal are all different nouns, hence noun is the odd one out.

Question 5

- A 5:25
- B 8:64
- C 7:49
- D 6:30

Answer: D

Explanation:

(A) :
$$(5)^2 = 25$$

(B) :
$$(8)^2 = 64$$

(C):
$$(7)^2 = 49$$

(D):
$$(6)^2 = 36 = 30$$

=> Ans - (D)

Question 6

- A 245
- B 443
- C 633
- D 821

Answer: C

Explanation:

The sum of digits of each nur

(A): 2 + 4 + 5 = 11

(B): 4 + 4 + 3 = 11

(C): 6 + 3 + 3 = 12 = 11

(D): 8 + 2 + 1 = 11

=> Ans - (C)

Question 7

A Green gram

B Corn

C Barley

D Wheat

Answer: A

Explanation:

Except green gram all others are cereals

Instructions

For the following questions answer them individually

Question 8

Which group of letters when sequentially placed at the gaps in the given letter series shall complete it?

AE__FCG__H__IFJ__K

A bdeg

B debg

C eegb

D bcad

Answer: A

Explanation:

in the alphabetical series that is ABCDEFGHIJKLMNOPQRSTUVWXYZ

after every letter the third letter to it is placed before it i.e

AEBFCGDHEIFJ GK

making option A the correct answer

Question 9

Arrange the following words as per order in dictionary.

1.Obscure

2.Objective

3.Objection

4.Obligation

5.Oblivion

- B 3,2,5,4,1
- C 3,2,5,1,4
- D 5,2,1,3,4

Answer: A

Explanation:

As per the order of dictionary,

- = Objection -> Objective -> Obligation -> Oblivion -> Obscure
- $\equiv 3,2,4,5,1$
- => Ans (A)

Question 10

- 15,23,31,39,___,55,63
- A 45
- B 47
- C 46
- D 44

Answer: B

Explanation:

The pattern followed is:

$$15 + 8 = 23$$

$$23 + 8 = 31$$

$$31 + 8 = 39$$

$$55 + 8 = 63$$

Question 11

2, 3.5, 5, 6.5, 8, ____?

- A 9.0
- B 9.5
- C 10.5
- D 11.0

Answer: B

Explanation:

The pattern followed here is (n + 1.5)

2 + 1.5 = 3.5,

3.5 + 1.5 = 5,
5 + 1.5 = 6.5,
6.5 + 1.5 = 8,
8 + 1.5 = 9.5
Hence, option B is the correct answer.
Question 12
32,58,92,134,?
A 169
B 184
C 194
D 156
Answer: B
Explanation:
Hence, option B is the correct answer.
Question 13
From the given alternative words, select the word which cannot be formed using the letters of the given word:
INTERROGATE (multiple use of letters are allowed)
A GATE
B SIGNATURE
C INTERN
D TERROR
Answer: B
Explanation:
The word 'INTERROGATE' does not contain any 'S', thus the word Signature cannot be formed.
=> Ans - (B)
Question 14
If PAINT is coded as 74128 and EXCEL is coded as 93596.how is ACCEPT coded?
A 450570
A 459578
B 457958

- c 459758
- D 455978

Answer: D

Explanation:

- P 7
- A 4
- 1-1
- N 2
- T-8
- E 9
- X 3
- C-5
- E 9 L-6

The codes for each letter is given:

- A ->4
- C -> 5
- C->5
- E->9
- P -> 7
- T ->8

=> ACCEPT: 455978

=> Ans - (D)

Question 15

If '+' means $'\div'$, 'x' means '+', '-' means 'x' and $'\div'$ means '-' then which of the following equations is correct?

A
$$36 + 6 - 3 \times 2 = 20$$

B
$$36 \times 6 + 3 - 2 < 20$$

C
$$36 \times 6 + 3 \times 2 < 20$$

D
$$36 + 6 \times 3 + 2 = 20$$

Answer: A

Explanation:

$$(A): 36 + 6 - 3 \times 2 = 20$$

$$\equiv 36 \div 6 \times 3 + 2 = 20$$

L.H.S. =
$$\binom{36}{6} \times 3 + 2$$

$$= (6 \times 3) + 2 = 20 = R.H.S.$$

=> Ans - (A)

Question 16

A father is 5 times as old as his son. His son is 6 year old. After how many years, will the father be 4 times as old as his son?

- A 2 years
- 5 years
- C 6 years

Son's age = 6 years

=> Father's age =
$$5 \times 6 = 30$$
 years

Let after X years, father will be four times as old as his son.

$$=> (30 + x) = 4(6 + x)$$

$$=> 30 + x = 24 + 4x$$

$$=> 4x - x = 30 - 24$$

$$=> 3x = 6$$

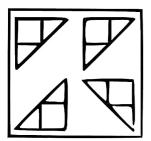
$$=> x = {5 \atop 3} = 2$$

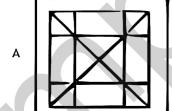
... After 2 years, father will be four times as old as his son.

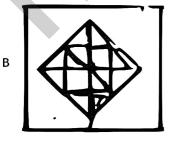
Instructions

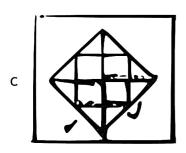
Among the four question figures, which figure can be formed from the cut-pieces given below in the question figure?

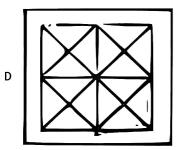
Question 17





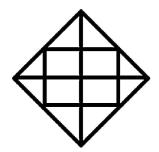






Answer: C

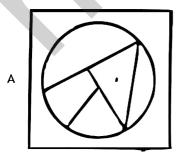
If we join the cut-pieces given above, the figure obtained will be:

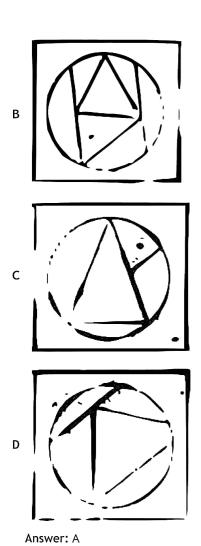


=> Ans - (C)

Question 18



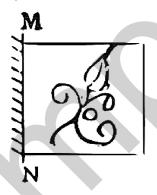




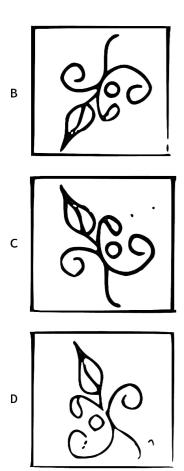
Instructions

In question no. 19 and 20, a mirror is placed on line MN. Then which of the answer figures is the correct image of the given figures?

Question 19







Answer: D

Explanation:

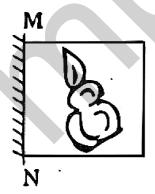
A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

So the leaf pointing top right will now be facing top left, thus the first two options will be eliminated.

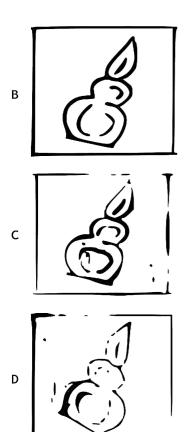
Also, in the question figure, the circle at the middle right side will appear at left side, hence fourth option is the right image.

=> Ans - (D)

Question 20







Answer: D

Figure in option \boldsymbol{D} is the mirror image of given figure.

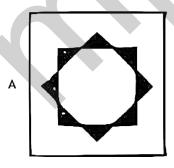
Instructions

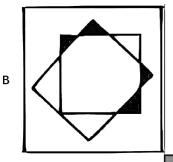
For the following questions answer them individually

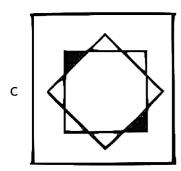
Question 21

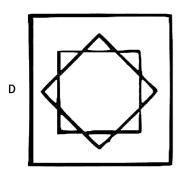
Find the missing figure of the series from the given response.









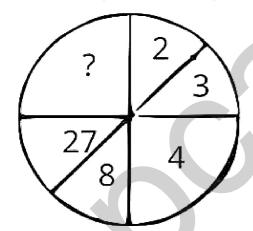


E None of these

Answer: E

Question 22

Select the missing number from the given responses.



A 56

B 49

C 45

D 64

Answer: D

Explanation:

The opposite numbers are cubes of the numbers i.e

\$\$\2^{3}\$\$ = 8

\$\$\3^{3}\$\$=27

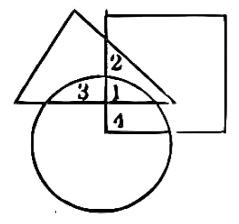
similarly,

\$\$\4^{3}\$\$=64

hence the correct answers is option D

Question 23

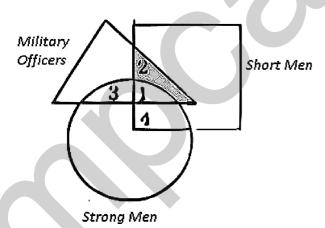
In the given diagram, Circle represents strong men, Square represents short men and Triangle represents military officers. Which region represents military officers who are short but not strong?



- A 2
- В 3
- C 4
- D I

Answer: A

Explanation:

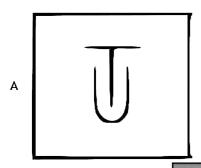


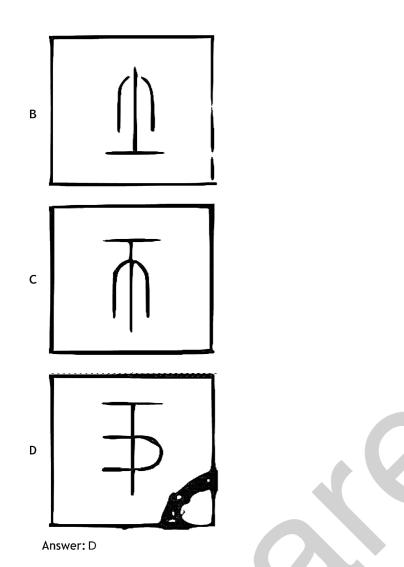
Military officers who are short but not strong is represented by = 2

=> Ans - (A)

Question 24

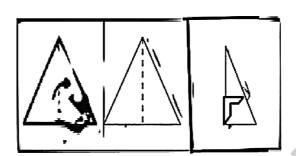
Select the figure which is different from the rest.

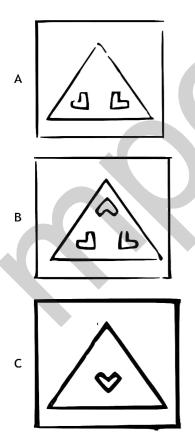


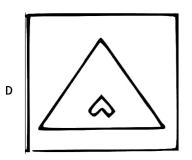


The last figure is different from the rest, as the curve is horizontal and there is an arc at the bottom right area of the square.

=> Ans - (D)







Answer: D

English

Instructions

For the following questions answer them individually

Question 26

The new government tooj____last year.

- A out
- B after
- C over
- D upon

Answer: E

Question 27

Mohan's career has taken some_____ twists and turns.

- A incentive
- B interesting
- C interactive
- D intuitive

Answer: E

Question 28

 $The bus \underline{\hspace{1cm}} fifty passengers fell \underline{\hspace{1cm}} the \ river.$

- A with;into
- B for;upon
- C over;on
- D of;at

Answer: E

Question 29
It is raining
A heavily
B fast
C soundly
D strongly
Answer: E
Question 30
She triesto adjusther relations.
A for
B at
C so
D with
Answer: E
Question 31
She was remarkably in singing and dancing.
A accomplished
B conducive
C flutuating
D cooperative
Answer: E
Question 32
Sheila gainedan advantageme.
A upon
B from
C on
D over
Answer: E

Question 33 Take this medicine regularly and you will get rid_____ this disease. A at from of over Answer: E Question 34 Statistics_____always my worst subject. A are were C is have Answer: E Question 35 When she retired, she handed ____ the charge to the Vice-President. over В out across D off Answer: E Question 36 Barbaric A Thorny Uncivilized Premeditated D Barber's Answer: E

Question 37

Hurdle

A Suspicion Throw Opposition Obstacle Answer: E Question 38 Deter To hinder To neigleet To Disapprove D To differ Answer: E Question 39 indolent Solvent Diligent Malovolent D Brilliant Answer: E Question 40 Coherent Distorted Disorganized Inept Carefree Answer: E Question 41 **Brutal**

Adamant

Humane

C Fearless	
D Criminal	
Answer: E	
Question 42	
The man changed colours when I questioned him on the allocation of funds.	
A turned pale	
B got numbed	
C turned happy	
D got motivated	
Answer: A	
Question 43	
We cannot depend on him for this assignment as it need careful handling and he is like a bull in a china shop.	
A a felicitous person	
B a clumsy person	
C a tactful person	
D a no-nonsense person	
Answer: B	
Question 44	
The mother always insists on keeping the house spick and span.	
A open	
B locked	
C safe	
D Tidy	
Answer: D	
Question 45	
On receiving his appointment letter, Ravi treated us with a sumptuous meal.	
A treated us to	
B treated us for	

C treated us by	
D No improvement	
Answer: A	
Instructions	
Long ago in Mounnelin there lived an fenreiqrowing old. One day, he sano gram in the street. Upset at being rennin led that someday, I too, would ago, he ordered all the old people to leave his land.	he
One day, a violent storm iswept, the kingdom. Nothing was safe from its fury. It. • roared into the palace and blew away the emperor's belongings, including his priceless golden pitcher. *hen the storm ended, the emperor ordered that dm pitcher ho found and brought back to him. People went in search of the pitcher. They saw it in a lake nairly. But no matter who • tried, no one could getia grip on the pitcher. All they, got was a handful of water. Yet it coulkhe plainluea•glittering and just below the waters surface	;
Question 46	
The emperor's orders were that all the	
A children should leave his land	
B old men should leave his land	
C old men should live in his land	
D young men should stay in his land	
Answer: E	
Question 47	
What did the people who went to bring the pitcher get?	
A Nothing at all	
B A handful ofwater	
C a handful ofair	
D The pitcher's handle	
Answer: E	
Question 48	
The people saw the golden pitcher	
A in a river nearby	
B in alake nearby	
C in a pitnearby	
D inside the palace	
Answer: E	
Question 49	

the emperor feared

- A getting old
- B getting young
- C getting weak
- D getting ill
 - Answer: E

Question 50

The emperor was upset to see the old man because

- A it reminded him of his grandfather
- B it reminded him that he might fall ill
- C it reminded him that he would grow old too
- D it reminded him that he had to colour his hair

Answer: E



Instructions

For the following questions answer them individually

Question 51

A circle is inscribed in an equilateral triangle and a square is inscribed in that circle. The ratio of the areas of the triangle and square is

Α

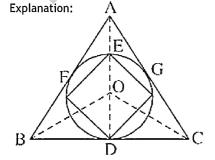
\$\$3\sqrt{3}:1\$\$ B

\$\$\sqrt{3} :4\$\$ C

\$\$\sqrt{3} :8\$\$ D

\$\$3\sqrt{3} :2\$\$

Answer: D





```
=> AD is the perpendicular bisector of BC.
=> \$BD=\frac{1}{2} and \$\alpha OBD = \$\frac{1}{2} angle
B=\frac{1}{2}\times 0^\circ \ Now, in $$\triangle$$ OBD,
=> \frac{00}{BD}=\frac{r}{\pi c\{a\}\{2\}}
=>
\r=\frac{1}{\sqrt{2}=\frac{a}{2}}\ Now, in
right $$\triangle$$ EDG, using Pythagoras theorem
=> $$(ED)^2=(EG)^2+(GD)^2$$
=> $$(2r)^2=(s)^2+(s)^2$$
=> $$4r^2=2s^2$$
=> $s^2=2\times(\frac{a}{2\sqrt3})^2$$
=> $$s^2=\frac{a^2}{6}$$
$$\therefore$$ ar($$\triangle$$) ABC : ar(DEFG)
= $(\frac{\sqrt3}{4}a^2):(s)^2$$
= $$(\frac{a^2}{6})
= $$3\sqrt3:2$$
=> Ans - (D)
Question 52
The simplified value of \frac{32}+\sqrt{48}}{\sqrt{8}+\sqrt{12}} is
  4
В
   3
C
   2
D
  Answer: C
Explanation:
 \label{eq:expression: $$\frac{32}+\sqrt{48}}{\sqrt{8}+\sqrt{12}} $
= $$\frac{4\sqrt{2}+4\sqrt{3}}{2\sqrt{2}+2\sqrt{3}}$$
= $$\frac{2(2\sqrt{2}+2\sqrt{3})}{2\sqrt{2}+2\sqrt{3}}=2$$
=> Ans - (C)
Question 53
$$\sqrt{\frac{9.5\times0.085}{0.0017\times 0.19}}$$ equals
A 5
B 50
C 500
```

D 0.05

Answer: B



Expression: \$\$\sqrt{\frac{9.5\times0.085}{0.0017\times 0.19}}\$\$ $= \$\sqrt{1000}\times \frac{95}{10}\times \frac{95}{10}\times \frac{95}{10}\times \frac{1000}{17}\times \frac{1000}{17}\times \frac{100}{17}\times \frac{100$ = $\$\sqrt{5\times100}$ = \$\$5\times 10=50\$\$ => Ans - (B) Question 54 Two pipes A and B can fill a tank in 6 hours and 4 hours respectively. If they are opened on alternate hours and if pipe A is opened first, then the tank shall be fill in A \$\$4\frac{1}{2}\$\$ hrs B 5 hrs C \$\$5\frac{1}{2}\$\$ hrs D 6 hrs Answer: B **Explanation:** Let total capacity of tank is L.C.M. (6,4) = 12 units A alone can fill the tank in 6 hours, => A's efficiency = \$\$\frac{12}{6}=2\$\$ units/hr Similarly B's efficiency = $\$\frac{12}{4}=3$ \$ units/hr Now, (A+B)'s 2 hour's work (A in first hour and B in second) = \$\$2+3=5\$\$ units => In 4 hours, tank filled = \$\$5\times2=10\$\$ units => Remaining part = \$\$12-10=2\$\$ units, which will be filled by A in the next complete hour. \$\$\therefore\$\$ Total time = \$\$4+1=5\$\$ hours => Ans - (B) Question 55 A,B and C can do a piece of work in 10,12 and 15 days respectively. A leaves 5 days before the completion of the work and B leaves 2 days after A. The whole work lasts for A 7 days 6 days C 12 days 13 days Answer: A **Explanation:** Let total work = L.C.M. (10,12,15) = 60 units A can complete the work in 10 days, => A's efficiency = \$\$\frac{60}{10}=6\$\$ units/day Similarly, B's efficiency = $\$\frac{60}{12}=5$ \$ units/day and C's efficiency = \$\$\frac{60}{15}=4\$\$ units/day Let total work is completed in \$x\$ days, => A worked for \$(x-5)\$ days and B for \$(x-3)\$ days

According to ques,

=> \$\$[6(x-5)]+[5(x-3)]+[4(x)]=60\$\$ => \$\$(6x-30)+(5x-15)+(4x)=60\$\$ => \$\$15x=60+45=105\$\$ =>\$x=\frac{105}{15}=7\$\$ days => Ans - (A) Question 56 A merchant purchases a wrist watch for 450 and fixes its list price in such a way that after allowing a discount of 10% he earns a profit of 20%. Then the list price of the watch is Α 600 650 700 D 550 Answer: A **Explanation:** Cost price of the watch = Rs. 450 Profit % = 20% => Selling price = $$$450+(\frac{20}{100}\times 450)$ \$ \$\$450+90=Rs.\$\$ \$\$540\$\$ Discount % = 10% => List price = \$\$\frac{540}{(100-10)}\times100\$\$ = \$\$6\times I 00=Rs.\$\$ \$\$600\$\$ => Ans - (A) Question 57 The ratio in which a man must mix rice at 10.20 per kg and 14.40 per kg so as to make a mixture worth 12.60 per kg, is Α 3:4 B 4:3 2:5 1:2 D Answer: A **Explanation:** Quantity in which man use rice at Rs. 10.20/kg = \$x\$ kg and at Rs. 14.40/kg = \$y\$ kg According to ques, => \$\$10.20x+14.40y=12.60(x+y)\$\$ => \$\$102x+144y=126x+126y\$\$ => \$\$126x-102x=144y-126y\$\$ => \$\$24x=18y\$\$ =>\$\frac{x}{y}=\frac{18}{24}=\frac{3}{4}\$\$

mixture worth 12.60 per kg =

\$\$\therefore\$\$ he ratio in wh



Question 58

If the sum of the length, breadth and height of a rectangular parallelopiped is 24 cm and the length of its diagonal is 15 cm then its total surface area is

A \$\$351\

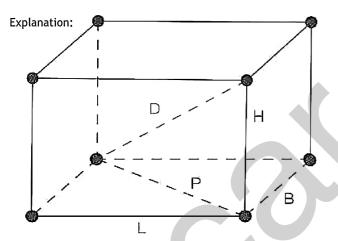
 cm^{2} \$ B \$\$256\

 cm^{2} \$ C \$\$265\

cm^{2}\$\$ **D** \$\$315\

 cm^{2} \$

Answer: A



Let the length, breadth and height be \$\$L,B\$\$ and \$\$H\$\$. The base diagonal,

\$\$P^2=L^2+B^2\$\$ Again, main diagonal,\$\$D^2=P^2+H^2\$\$

=> \$\$L^2+B^2+H^2=(15)^2=225\$\$

Also, it is given that \$\$L+B+H=24\$\$

Total surface area =

\$\$2(LB+BH+HL)=x\$\$ Using square of three

term expression, we get:

=> \$\$(L+B+H)^2=(L^2+B^2+H^2)+2(LB+BH+HL)\$\$

=> \$\$(24)^2=225+x\$\$

=> \$\$x=576-225=351\$\$ \$\$cm^2\$\$

=> Ans - (A)

Question 59

Two successive discounts of 30% and 70% are equivalent to single discount of

A 89%

B 75%

C 79%



```
Let Marked price = Rs. $$100$$
After 1st discount of 30%, price = \$100-(\frac{30}{100}\times100)
= $$100-30=70$$
After 2nd discount of 70% (on changed price), selling price = $$70-(\frac{70}{100}\times70)$$
= $$70-49=21$$
\ \\text{100-21}{100}\times \100=79\\$$
=> Ans - (C)
Question 60
A merchant allows a discount of 10% on marked price for the cash payment. To make a profit of 17%, he must mark his goods higher
than their cost price by
   30%
  33%
В
  40%
D
  27%
  Answer: A
Explanation:
Let Cost price = Rs. 100
Profit % = 17%
=> Selling price = $100+(\frac{17}{100}\times100)$
$$100+17=Rs.$$ $$117$$
Discount % = 10%
=> Marked price = $$\frac{117}{(100-10)}\times100$$
= $13\times10=Rs.$
\ \therefore \ Markup \ = \$\\frac{(130-100)}{100}\\times \ 100=30\\$$
=> Ans - (A)
Question 61
The present ages of two persons are 36 and 50 years respectively if after n years the ratio of their ages will be 3:4 then the value of n
  3
D
  Answer: D
```

Explanation:

According to ques,
=> \$\$\frac{36+n}{50+n}=\frac{3}{4}\$\$
=> \$\$144+4n=150+3n\$\$
=> \$\$4n-3n=150-144\$\$
=> \$\$n=6\$\$
=> Ans -(D)
Question 62
Out of 20 boys, 6 are each of 1 m 15 cm height, 8 are of 1 m 10 cm and rest of 1m 12cm. The average height of all of them is
A Im I2cm
B Im I2.1cm
C Im 211cm
D Im21cm
Answer: B
Explanation: Total number of boys = 20
Total height of first 6 boys = \$\$6\times1.15=6.9\$\$ m
Total height of next 8 boys = \$\$8\times1.10=8.8\$\$ m
Total height of last 6 boys = \$\$6\times I.12=6.72\$\$ m
=> Average height = \$\$\frac{(6.9+8.8+6.72)}{20}\$\$
= \$\$\frac{22.42}{20}=1.121=\$\$ Im 12.1 cm
=> Ans - (B)
Question 63
Average of first five prime numbers is
A 3.6
B 5.3
C 5.6
D ₅
Answer: C
Explanation: Sum of first 5 prime numbers = \$\$2+3+5+7+11=28\$\$
=> Required average = \$\$\frac{28}{5}=5.6\$\$
=> Ans - (C)

A dishonest greer sells rice at a profit of 10% and also uses weight which are 20% less than the marked weight. The total gain earned

Question 64

by him will be

```
A 35%
B 37.5%
C 40%
D 30.5%
  Answer: B
Explanation:
Let cost price = Re. I/gm = Rs. I000/kg
Weight used by the seller = $1000-(\frac{20}{100}\times 1000)=800$ gm
Selling price = \$1000+(\frac{10}{100}\times1000)=Rs.\$$$1100$$
=> Selling price per gm = \frac{1100}{800}=Rs.$$ \frac{1100}{800}=Rs.$$
\ \therefore \Profit \( = $\frac{(1.375-1)}{1} \times 100 = 37.5 \% \$
=> Ans - (B)
Question 65
The cost price of a radio is 600.5% of the cost price is charged toward transportation. After adding that, if the net profit to be made is
15%, then the selling price of the radio must be
  684.50
   704.50
  724.50
  664.50
  Answer: C
Explanation:
Cost price of radio = Rs. 600
Transportation price = \frac{5}{100}\times600=Rs.$$$30$$
=> Total Cost Price =
$$600+30=Rs.$$ $$630$$ Profit % = 15%
=> Selling price = $$630+(\frac{15}{100}\times630)$
= $$630+94.50=Rs.$$ $$724.50$$
=> Ans - (C)
Question 66
A certain amount of money is divided amoung x,y and z. If x receives 25% more than y and y receives 25% less than z, then x:y:z is
equal to
  12:10:11
  14:12:13
C 15:12:16
D 10:9:12
  Answer: C
```

Let amount received by \$\$z=100\$\$

- => Amount received by $\$y=100-(\frac{25}{100}\times 100)=75$ \$
- => Amount received by \$\$x=75+(\frac{25}{100}\times75)=93.75\$\$

\$\$\therefore\$\$ \$\$x:y:z=93.75:75:100\$\$

= \$\$9375:7500:10000\$\$

Dividing each term by \$\$625\$, we get = \$\$15:12:16\$\$

=> Ans - (C)

Question 67

Walking at speed of 5 km/hr, a man reaches his office 6 minutes late. Walking at 6 km/hr, he reaches there 2 minutes early. The distance of his office is:

- A 2 km
- B 3 km
- C 4 km
- D 3.5 km

Answer: C

Explanation:

Let ideal time to reach office is in = \$\$t\$\$ hours and let distance = \$\$d\$\$ km

When he walks at 5 km/hr, he reaches his office 6 minutes late

Using, distance = speed \$\$\times\$\$ time

Similarly, $\$d=6(t-\frac{2}{60})\$$ ----- (ii)

Comparing equations (i) and (ii), we get:

- $=> $$5(t+\frac{6}{60})=6(t-\frac{2}{60})$$
- $=> $$5t+\frac{1}{2}=6t-\frac{1}{5}$$
- $=> $$6t-5t=\frac{1}{2}+\frac{1}{5}$$
- =>\$t=\frac{(5+2)}{10}=\frac{7}{10}\$\$

Substituting it in equation (i), => $$d=5\times(\frac{7}{10}+\frac{6}{60})$

- $= $$5\times {48}{60} = {48}{12} = 4$ km
- => Ans (C)

Question 68

By selling a fan for 600, a man loses 10%. To make a gain of 20%, the selling price of the fan should be

- A 800
- B 900
- **C** 1000
- D 700

Answer: A

Selling price of fan = Rs. 600

Loss % = 10%

=> Cost price = \$\$\frac{600}{(100-10)}\times100\$\$

 $\frac{6000}{9}=Rs.$$$

rofit % = 20%

 $\$\text{100}{3}+(\frac{2000}{3}+(\frac{2000}{3}))$

=\$\frac{2000}{3}+\frac{400}{3}=\frac{2400}{3}=Rs.\$\$ \$\$800\$\$

=> Ans - (A)

Question 69

Two persons contested an election of Parliament. The winning candidate secured 57% of the total votes polled and won by a majority of 42,000 votes. The number of total votes polled is



5,00,000

6,00,000

3,00,000

Answer: D

Explanation:

Let number of total votes polled = \$100x\$

Votes secured by winning candidate = $\$\frac{57}{100}\times 100x=57x$

=> Votes secured by losing candidate = \$\$100x-

57x=43x\$\$ According to ques, => \$\$57x-43x=42,000\$\$

=> \$\$x=\frac{42,000}{14}=3,000\$\$

\$\$\therefore\$\$ Total votes polled = \$\$100\times3,000=3,00,000\$\$

=> Ans - (D)

Question 70

A number when reduced by 10% gives 30. The number is

35 Α

В

\$\$33\

 $\frac{1}{2}$ \$ C \$\$33\

\frac{1}{3}\$\$ D 40

Answer: C

Explanation:

Let the number be \$\$x\$\$

According to ques, => $x-(\frac{10}{100}\times x)=30$



```
=> $\frac{9x}{10}=30$$
=> $x=\frac{30\times10}{9}=\frac{100}{3}$$
=> $x=33\frac{1}{3}$$
=> Ans - (C)
Question 71
Two trains 108m and 112 m in length are running towards each other on the parallel lines at a speed of 45 km/hr and 54 km/hr
respectively. To cross each other after they meet, it will take
   10 sec
   12 sec
  9 sec
   8 sec
  Answer: D
Explanation:
Sum of lengths of train = $$108+112=220$$ m
Trains are running towards each other, => Relative speed = $$45+54=99$$ km/hr
= \$99\times(\frac{5}{18})=27.5$ m/s
=> Time taken = distance/speed
= $\frac{220}{27.5}=8$$ seconds
=> Ans - (D)
Question 72
A sum of money becomes 1.331 times in 3 years as compound interest. The rate of interest is
A 50%
B 8%
C 7.5%
D 10%
  Answer: D
Explanation:
Let principal sum = Rs. $ and rate of interest = $ \%$$
=> Amount after 3 years = Rs. $$1.331x$$
Amount under compound interest = P(1+\frac{R}{100})^T
=> $x(I+\frac{r}{100})^3=1.33Ix$$
=> $1+\frac{r}{100}=\sqrt[3]{1.331}$$
=> $\frac{r}{100}=1.1-1=0.1$$
=> $r=0.1\times100=10\%$$
=> Ans - (D)
```

Question 73

A person deposited 500 for 4 years and 600 for 3 years at the same rate of simple interest in a bank. Altogether she received 190 a	as
interest. The rate of simple interest per annum was	

A 3%

B 4%

C 5%

D 2%

Answer: C

Explanation:

Let rate of interest = $$r\$

 $Simple \ interest = \$\$ frac{P\times R\times R}$

T}{100}\$\$ According to ques,

=>\$(\frac{500\times r\times4}{100})+(\frac{600\times r\times3}{100})=190\$\$

= \$\$20r+18r=190\$\$

=>\$r=\frac{190}{38}=5\%\$\$

=> Ans - (C)

Question 74

The following graph represents the maximum and minimum temperature recorded every day in a certain week. The day on which the difference between the maximum and minimum temperature was maximum is



B Wednesday

C Saturday

D Sunday

Answer: C

Explanation:

Difference between the maximum and minimum temperature :

(A) : Monday = \$\$45-

30=15\$\$ (B) : Wednesday =

\$\$32-15=17\$\$

(C): Saturday = \$\$48-25=23\$\$ [MAX]

(D): Sunday = \$\$39-23=16\$\$

=> Ans - (C)

Question 75

Different choices made by a group of 200 students are given below in percentages. The number of students who have taken neither Science nor Commerce is

Percentage of Students in different streams		
Name of the Streams	Intake Ratio	
Science	29%	
Arts	29%	
Commerce	31%	
Home Science	6%	
Others	5%	

B 80

C 120

D 60

Answer: B

Explanation:

Total number of students = 200

% of students who have taken neither Science nor Commerce = \$\$29+6+5=40\%\$\$

=> Total number of students who have taken neither Science nor Commerce = \$\$\frac{40}{100}\times200=80\$\$

=> Ans - (B)

General Awareness

Instructions

For the following questions ar

Question 76

Na	me the commander of the Arab army who conquered the Sindh
Α	Mubammad bin Qasim
В	Al Hazzaz
С	Qutbuddin Aibak
D	Allauddin Khilji
A	Answer: A
Qu	estion 77
Wh	o was the chairperson of the Chinese Communist Party at the time of liberation of China ?
Α	Liu shaoqi
В	Zhou Enlai
С	Deng Xiaoping
D	Mao Zedong
,	Answer: E
Qu	estion 78
Wh	o was regarded by Gandhiji as his political guru ?
Α	Gopal krishna gokhale
В	lala lajaptrai
С	bipin chandra pal
D	bal gangadhar tilak
,	Answer: E
Qu	estion 79
	ect the high yielding varieties of seed-crops developed under green revolution in india
Α	Wheat rice sugarene pulse and maizo
В	rice wheat pulses oil seeds and sugareane
С	maize blacj-gram jowar coffe and tea
D	rice wheat jowar bajra and maize
A	answer: D

Question 80 In which year did amartya kumar sen receive the nobel prize in economics? 1990 В 1998 C 1995 2000 Answer: E Question 81 The worldwide great depression took place in 1930 1936 1929 D 1928 Answer: A Question 82 india is the larget producer and consumer of sugar paddy tea coffee Answer: C Question 83 A camera in the hands of a professional photographer is a ____ good. capital В free C intermediary consumer Answer: E Question 84

which among the following movements was not led by mahatma gandhi?

A civil disobedience movement
B quit india movement
C swadeshi movement
D non-cooperation movement
Answer: C
Question 85
constitution of india came into force in
A 1949
B 1951
C 1956
D 1950 Answer: E
Allower, L
Question 86
cold war refers to
A tension between east and west
B ideological rivarly between capitalist and communist world
C tension between surperpower
D all of theabove
Answer: E
Question 87
which one of the following is not an all india service?
A indian police service
B indian foreign service
C indian forest service
D indian adiminstrative service Answer: B
Question 88 in which session of the indian national congress was the poorna swaraj resolution adopted?
session of the maian national congress was the poorna swaraj resolution adopted:
A karachi session in 1931

- Albert 1988, strate & American School Strategy and the strategy and the

B lucknow session in 1916	
C belgaum session in 1924	
D lahore session in 1929	
Answer: D	
Question 89	
the school of arts developed during the kusham period with the mixture of indian and greek style kn	now as
A mughal art	
B kusham art	
C persian art	
D gandhara art	
Answer: E	
Question 90	
where was christopher columbus from ?	
A portugal	
B venice	
C genoa	
D spain	
Answer: C	
Question 91	
speed of processor chip is measured in	
A bytes/second	
B mbps	
C mhz	
D bits/second	
Answer: C	
Question 92 which command is not used to switch off the computer	
winch command is not used to switch out the combutel	

A hibernate

B turn off
C log off
D shut down
Answer: E
Question 93
which one out of the following helps in burning?
A carbon dioxide
B _{oxygen}
C carbon monoxide
D _{nitrogen}
Answer: B
Question 94
in organic compounds, nitrogen is estimates by
A Dumas method
B Carius method
C Victor-meyer's method
D Liebig's method
Answer: A
Question 95
the tropic of cancer does not pass through
A China
B Myanmar
C Nepal
D Bangladesh
Answer: C
Question 96
The country in east asia which is most conspicuous for its decreasing population growth since 1981 is
A Japan
B South korea
C Thailand

D	China
	Answer: A
Qι	estion 97
th	e sathusamudram ship canal project sscp is supposed to reduce the distance between chennai and tuticorin by nautical miles
Α	305
В	361
C	434
	243
	Answer: C
Qι	estion 98
Ci	cies with population from one to five million are called
Α	Cosmopolitan
В	Conurbation
C	Million city
D	Metroplitan
	Answer: D
٥.	nestion 99
	ster copy of genetic information is
Α	DNA
В	Nucleus
c	r-RNA
	m-RNA
	Answer: A
Qı	uestion 100
со	ntraceptive pills in the market conatin
Α	steroid-hormones
	inorganic compounds
C	herbicides
	antibiotics
	Answer: A