



RRB NTPC 3 April 2016 2nd Shift

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RRB NTPC 3 April 2016 - Shift 2

Instructions

For the following questions answer them individually

Question 1

The Make In India Logo is made up of what?

- A Lion made of Cogs
- B Eagle Made of Steel
- C Chakra Made of Cotton
- D Tiger Made of Khadi

Answer: A

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Question 2

The median of the following numbers arranged in ascending order is 2.5, if so find x?

0, 0, 1, 1, 2, 2, x, 3, 3, 4, 5, 7

- A 2
- B 3
- C 4
- D 0

Answer: B

Explanation:

Numbers are arranged in ascending order

0, 0, 1, 1, 2, 2, x, 3, 3, 4, 5, 7

Total Number = 12

So median = (6th Number + 7th Number)/2

$$\Rightarrow 2.5 = (2 + x)/2$$

$$\Rightarrow 5 = 2 + x$$

$$\Rightarrow x = 3$$

B is correct choice.

Question 3

How do Indians celebrate Holi?

- A By playing pranks on each other
- B By throwing coloured powder and water on each other
- C By Lighting Lamps
- D By setting pigeons free

Answer: B

Question 4

X is the only daughter of Y's grandfather's only son. Y's grandfather has only one child. How is X related to Y?

- A Mother
- B Sister
- C Paternal Aunt
- D Grandmother

Answer: B

Explanation:

"Y's grandfather's only Son" means Y's father.

Y's father's daughter means Y's sister.

So, X is Y's sister.

B is correct choice.

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Question 5

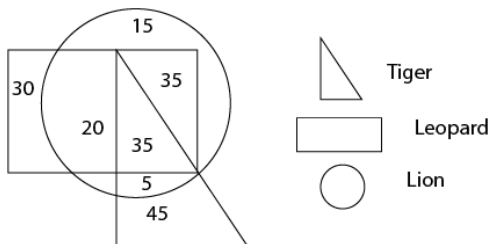
In Indian sport what does HIL stand for?

- A Himachal Indian Lions
- B Haryana. Indus League
- C Hockey India League
- D Hyderabad India League

Answer: C

Instructions

Study the following diagram and answer questions based on it
The diagram represents the likes of children in a society.



Question 6

The difference between children who like leopard to those who like tiger is

- A 50
- B 35
- C 30

D 5

Answer: B

Explanation:

Number of children who like leopard are
 $=35+35+30+20=120$.

and number of children who like tiger are
 $=35+5+45=85$.

So, their difference is $(120-85)=35$.

So, B is correct choice.

Question 7

How many children like both lion and leopard?

A 35

B 55

C 90

D 95

Answer: C

Explanation:

Number of children who like lion and leopard both are $=35+35+20=90$.

C is correct choice.

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Question 8

How many children who like lion, also like the tiger?

A 5

B 15

C 35

D 40

Answer: D

Explanation:

Number of children who like lion as well as tiger are $(35+5)=40$.

D is correct choice.

Instructions

For the following questions answer them individually

Question 9

Find the missing (?) in the series

50, 49.5, ?, 45.5, 42, 37.5,

A 49

- B 48
- C 47.5
- D 46

Answer: B

Explanation:

$$50 - 1 \times 0.5 = 49.5$$

$$49.5 - 3 \times 0.5 = 48$$

$$48 - 5 \times 0.5 = 45.5$$

$$45.5 - 7 \times 0.5 = 42$$

$$42 - 9 \times 0.5 = 37.5$$

So, the missing term is 48.

B is correct choice.

Question 10

Malgudi Days is based on the works of which Indian Writer?

- A Shankar Nag
- B R. K. Lakshman
- C R.K. Narayan
- D Girish Kaniad

Answer: C

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Question 11

Statements followed by some conclusions are given below.

Statements:

1. Employees are well paid.
2. Rajan earns well.

Conclusions:

- I. Rajan is an employee.
- II. Rajan is self-employed.

Find which of the given conclusions logically follows from the given statements.

- A Only conclusion I follows.
- B Only conclusion II follows.
- C Both I and II follow.
- D Neither I nor II follows.

Answer: D

Explanation:

1. Employees are well paid :

it implies that like others, also employees get a good payment in exchange of their work.

2. Rajan earns well :

it means Rajan serves well to get paid well.

So, both the conclusions are not valid.

D is correct choice.

Question 12

At what time did India Gain Independence of 15th August 1947?

- A Morning
- B Midevening
- C Midnight
- D Noon

Answer: C

Question 13

A train having a length of 500 m passes through a tunnel of 1000 m in 1 minute. What is the speed of the train in Km/hr?

- A 75 Km/hr
- B 90 Km/hr
- C 87 Km/hr
- D 96 Km/hr

Answer: B

Explanation:

In 1 min train covers (train's length+tunnel's length)=(500+1000)=1500 m.

So,in 60 minutes train covers $1500 \times 60 = 90000\text{m}$ or 90 KM.

So, train's velocity=90 KM/H.

B is correct choice.

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Question 14

What is the science or art of designing and accelerating projectiles so as to achieve a desired performance called?

- A Ballistics
- B Catapulting
- C Ejection
- D Rocket Science

Answer: A

Question 15

Find the similarity in the following: Orange, Peach, Olive, Chrome

- A All of them are fruits.

- B All of them are names of seasons
- C All of them are colours.
- D All of them are shades of orange.

Answer: C

Explanation:

Orange, Peach, Olive, Chrome all are name of color.

C is correct choice.

Question 16

What does WLAN stand for?

- A Wireless Local Area Network
- B Wide Local Area Network
- C Wind Light Atmospheric Nature
- D Wireless Local Area Node

Answer: A

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Question 17

What does "Bicameral Legislature" mean?

- A Legislators are divided into 4 separate assemblies
- B Legislators are grouped as 1 assembly
- C Legislators are divided into 2 separate assemblies
- D Legislators are divided into 8 separate assemblies

Answer: C

Question 18

Find the missing (?) in the series HG, LM, LK, MN, ?,

- A OP
- B PO
- C QP
- D PQ

Answer: B

Explanation:

HG==> H's immediate previous letter is G.

LM==>L's immediate next letter is M.

LK==>L's immediate previous letter is K.

MN==>M's immediate next letter is N.

So, PO is the next word in the given sequence.

B is correct choice.

Question 19

A small shop owner keeps inventory satisfying the following criteria –

1. Shampoo sachets that are priced between Rs.4 and Rs.10 per sachet.
2. Chocolates in the price range of Re.1 and Rs.60 per piece.
3. Dry fruits priced more than Rs.125 per 100 grams.
4. Milk packets in the price range of Rs.21 and Rs.29 per litre.

Which list among the following will definitely NOT be found in his shop?

- A Shampoo A at Rs.4 per sachet, chocolate B at Rs.1.5 per piece and dry fruit C, at Rs.250 per 125 gram.
- B Shampoo P at Rs.5 per sachet, milk packet Q at Rs.23 per litre and dry fruit R at Rs.150 per 100 gram.
- C Shampoo X at Rs.5 per sachet, chocolate Y at Rs.1 per piece and dry fruit Z at Rs.100 per 100 gram.
- D Shampoo L at Rs.4 per sachet, milk packet M at Rs.24.5 per packet, and chocolate N at Rs.35 per piece and dry fruit O at Rs.350 per 200 gram.

Answer: C

Explanation:

He sells :

1. Shampoo sachets that are priced between Rs.4 and Rs.10 per sachet.
2. Chocolates in the price range of Re.1 and Rs.60 per piece.
3. Dry fruits priced more than Rs.125 per 100 grams.
4. Milk packets in the price range of Rs.21 and Rs.29 per litre.

So,

Shampoo X at Rs.5 per sachet - is not available in his shop.

chocolate Y at Rs.1 per piece - is not available.

dry fruit Z at Rs.100 per 100 gram - is not available.

C is correct choice.

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Question 20

Which is the most abundant combustile natural gas?

- A Propane
- B Methane
- C Ethane
- D Butane

Answer: B

Question 21

Which among the following is the Largest Freshwater Lake in India?

- A Dal Lake
- B Thol Lake

C Pushkar Lake

D Wular Lake

Answer: D

Question 22

Manu sold a dozen watches for Rs.1454.64 per watch and made a profit of 16%. Find the cost price of each watch?

A 1254.00

B 1362.36

C 15048.00

D 16348.32

Answer: A

Explanation:

Let say, cost price of all the watches is x .

selling price of one dozen watches $12 \times 1454.64 = 17455.68$.Rs.

But selling price at 16% profit is $= 1.16x$.

So, $1.16x = 17455.68$

or, $x = 15048$ Rs.

Cost Price of dozen watches = Rs.15048.

Cost Price of each watch = Rs.15048/12 = Rs.1254.

A is correct choice.

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Question 23

The famous camel trading event is a part of this annual fair.

A Udaipur Mela

B Thar Mela

C Kumbh Mela

D Pushkar Mela

Answer: D

Question 24

What is the rate of change of position of an object with respect to a frame of reference, which is a function of time called?

A Mechanics

B Vector

C Velocity

D Magnitude

Answer: C

Explanation:

$$\text{velocity of an object } (v) = \frac{\text{displacement}(d)}{\text{time taken}(t)} .$$

So, C is correct choice.

Question 25

If DELHI is QRYUV, then BOMBAY is

- A OBZNOL
- B OZBNOL
- C OZBONL
- D OBZONL

Answer: D

Explanation:

Conversion Table

A = 1	K = 11	U = 21
B = 2	L = 12	V = 22
C = 3	M = 13	W = 23
D = 4	N = 14	X = 24
E = 5	O = 15	Y = 25
F = 6	P = 16	Z = 26
G = 7	Q = 17	
H = 8	R = 18	
I = 9	S = 19	
J = 10	T = 20	

DELHI is QRYUV :

$$Q-D=17-4=13.$$

$$R-E=18-5=13.$$

$$Y-L=25-12=13.$$

$$U-H=21-8=13.$$

$$V-I=22-9=13.$$

Similarly, BOMBAY=OBZONL.

D is correct choice.

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Question 26

If GOING is 38253 and CASUAL is 409106, then LOGICAL is

- A 6034286
- B 6834206
- C 6032486
- D 6832406

Answer: D

Explanation:

If GOING is 38253 and CASUAL is 409106, it implies that :

$$G=3, O=8, I=2, N=5, C=4, A=0, S=9, U=1 \text{ \& } L=6.$$

So ,LOGICAL=6832406.

D is correct choice.

Question 27

Manju takes 16 days to complete a work. If she works with her friend Jenny they complete it in 12 days. How many days will it take for Jenny to complete the work alone?

- A 48
- B 32
- C 36
- D 24

Answer: A

Explanation:

Manju does full job in 16 days.

In 1 day he will do $1/16$ part of job.

Manju and Jenny together does full job in 12 days.

So,they together will do $1/12$ part of job in 1 day.

So, Alone Jenny will do $((1/12) - (1/16))$ or $1/48$ part of job in 1 day.

So,Jenny will finish the job in 48 days.

A is correct choice.

Question 28

Solve $10^9 \times 10^2 \div 10^3$

- A 10^8
- B 10^6
- C 10^2
- D 10^5

Answer: A

Explanation:

$$10^9 \times 10^2 \div 10^3$$

$$= 10^9 \times 10^{(-1)}$$

$$= 10^{(9-1)}$$

$$= 10^8$$

A is correct choice.

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Question 29

If the circumference of a circle is 22 cm, find the area of the semicircle.

- A 38.5 sq.cm
- B 19.25 sq.cm

C 44 sq.cm

D 77 sq.cm

Answer: B

Explanation:

According to question :

$$2 \times (22/7) \times r = 22.$$

$$\text{or, } r = (7/2) = 3.5.$$

$$\text{So, Area of circle} = \pi r^2$$

$$= (22/7)(3.5)^2.$$

$$= 38.5 \text{ cm}^2$$

$$\text{So, Area of semicircle} = (38.5/2) = 19.25 \text{ cm}^2$$

B is correct choice.

Question 30

Find the interest on Rs.25000 at 12% p.a compounded annually for 3 years.

A 9,000

B 9,833.40

C 10,123.20

D 10,678.90

Answer: C

Explanation:

$$P = 25000 \text{ Rs.}, r = 12\%, n = 3.$$

$$\text{Compounded amount} = 25000(1 + 0.12)^3.$$

$$= 35123.20 \text{ Rs.}$$

$$\text{So, interest earned} = (35123.20 - 25000) \text{ Rs.}$$

$$= 10123.20 \text{ Rs.}$$

C is correct choice.

Question 31

The LCM and HCF of 2 numbers are 168 and 6 respectively. If one of the numbers is 24, find the other.

A 36

B 38

C 40

D 42

Answer: D

Explanation:

multiplication of two numbers = LCM \times HCF of these two numbers.

here, LCM=168 and HCF=6 and one of the number is 24.

$$\text{So, other number} \times 24 = 168 \times 6.$$

or, other number = $\frac{(168 \times 6)}{24} = 42$.

So, D is correct choice.

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Question 32

Seeta said, "Ram's only brother is the father of my son's father". How is Ram's brother related to Seeta's son?

- A Father
- B Grandfather
- C Maternal Uncle
- D Paternal Uncle

Answer: B

Explanation:

Father of father is grandfather.

So, Ram's brother is grandfather of Seeta's Son.

B is correct choice.

Question 33

78 books, 114 crayons and 141 notebooks were distributed to school children equally. It was found that 6 were left undistributed in each. What was the total number of children?

- A 9
- B 8
- C 13
- D 12

Answer: A

Explanation:

Books distributed = $78 - 6 = 72$.

Crayons distributed = $114 - 6 = 108$.

Notebooks distributed = $141 - 6 = 135$.

Total number of distributed things = $72 + 108 + 135 = 315$.

Among 9, 13, 12 and 8, 315 is divisible by 9 only.

So, A is correct choice.

Question 34

What are Vivipara?

- A Vertebrates that are born live
- B Type of cactus
- C Type of algae
- D A mollusk

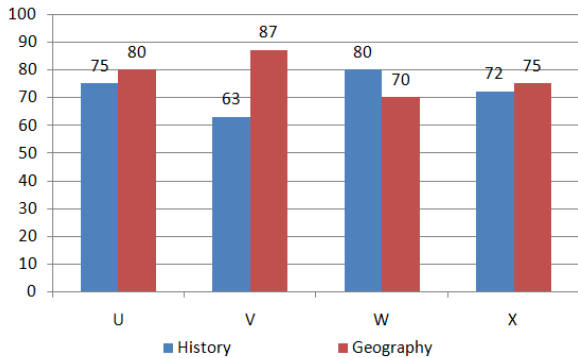
Answer: A

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Instructions

Read the following graph answer the questions below.

The bar chart represents percentage marks scored by four students U, V, W and X in History and Geography. Consider the bar chart and answer questions based on it.



Question 35

Who scored the highest percentage in both the subjects combined?

- A Both V and W
- B V
- C W
- D U

Answer: D

Explanation:

$$\text{U's percentage} = \frac{75+80}{200} \times 100 = 77.5\%$$

$$\text{V's percentage} = \frac{63+87}{200} \times 100 = 75\%$$

$$\text{W's percentage} = \frac{80+70}{200} \times 100 = 75\%$$

$$\text{X's percentage} = \frac{72+75}{200} \times 100 = 73.5\%$$

So, U got highest percentage.

D is correct choice.

Question 36

What is the percentage difference in the total marks obtained in Geography and History?

- A 7.58%
- B 7%
- C 4.13%
- D 5%
- E 5.5%

Answer: E

Explanation:

Marks obtained in History by U,V,W,X is 75,63,80,72 respectively.

So, total marks obtained by them= $75+63+80+72=290$.

So, percentage of marks obtained by them= $(290/400)100=72.5$.

Total marks obtained in Geography= 312 .

So,percentage of marks obtained= $(312/400)100=78$.

Their difference= $78-72.5=5.5\%$

E is correct choice.

Question 37

What is the average percentage marks obtained in History by all students?

- A 78%
- B 75%
- C 72.5%
- D 70%

Answer: C

Explanation:

Marks obtained in History by U,V,W,X is 75,63,80,72 respectively.

So, total marks obtained by them= $75+63+80+72=290$.

So, average marks obtained by them= $290/4=72.5$.

C is correct choice.

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Instructions

For the following questions answer them individually

Question 38

If $a^{x+y} = a^6$ and $x>y$ by 2 find x.

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

Answer: D

Explanation:

$$a^{x+y} = a^6$$

$$\text{or, } \log_a (a^{(x+y)}) = \log_a a^6. (\text{taking } \log_a \text{ on both sides})$$

$$\text{or, } x + y = 6 \dots \dots \dots (1)$$

$$x > y \text{ by 2 means } x - y = 2 \dots \dots \dots (2)$$

add (1) and (2) :

$$2x = 8 \text{ or, } x = 4.$$

Put $x=4$ in (1) :

y=2.

D is correct choice.

Question 39

What is a Limerick?

- A A Type of Lime Stone
- B A form of poetry mostly in five-lines
- C A type of Theatre Play
- D A type of Word game

Answer: B

Question 40

If Annual : One year, then Quinquennial :

- A Five years
- B Ten years
- C Hundred years
- D Thousand years

Answer: A

Question 41

Andromeda is a

- A Galaxy neighboring the Milky way
- B Planet
- C Name of a black hole
- D Comet

Answer: A

Question 42

Whose quote is "In practice of tolerance, one's enemy is the best teacher"?

- A Gautama Buddha
- B Mahatma Gandhi
- C Barack Obama
- D The Dalai Lama

Answer: D

Question 43

What is Shigmo?

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- A A Goan Spring Festival
- B The tallest peak in Nilgiris
- C A type of Rangoli
- D One of the Names of Lord Shiva

Answer: A

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Question 44

In computers, what does Yosemite, Mavericks, Mountain Lion, Lion, Snow Leopard, Leopard, Tiger, Panther, Jaguar, Puma and Cheetah stand for?

- A Versions of Mac OS X
- B Types of Storage Servers
- C Macintosh Clones
- D PowerBooks

Answer: A

Question 45

Rearrange the jumbled letters to make a meaningful word and then select the one which is different.

- A ENNI
- B NEO
- C EPPI
- D REETH

Answer: C

Explanation:

ENNI==>NINE

NEO==>ONE

EPPI==>PIPE

REETH==>THREE

other than PIPE ,all are number written in english.

So, C is correct choice.

Question 46

Solve $\frac{12}{13} \times \frac{285}{96} \div \frac{171}{169} = ?$

- A $3\frac{2}{3}$
- B $2\frac{17}{24}$

C $\frac{7}{8}$

D $\frac{11}{24}$

Answer: B

Explanation:

$$\begin{aligned} & \frac{12}{13} \times \frac{285}{96} \div \frac{171}{169} \\ &= \frac{12}{13} \times \frac{285}{96} \times \frac{169}{171} \\ &= \frac{1}{1} \times \frac{285}{8} \times \frac{13}{171} \\ &= \frac{1}{1} \times \frac{15}{8} \times \frac{13}{9} \\ &= \frac{1}{1} \times \frac{5}{8} \times \frac{13}{3} \\ &= \frac{65}{24} \\ &= 2\frac{17}{24} \end{aligned}$$

B is correct choice.

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Question 47

LIGO, Laser Interferometer Observatory was recently in the news. Why?

- A Discovery of water in Mars
- B Discovery of a diamond-filled star
- C Detection of Gravitational waves
- D Proving Big Bang theory as wrong

Answer: C

Question 48

In which century did Portuguese merchants first land in Goa?

- A 14th
- B 15th
- C 16th
- D 17th

Answer: C

Question 49

In 1999 who was the Prime Minister of Pakistan who was overthrown by a Military coup led by General Pervez Musharraf?

- A zulfiqar Ali Bhutto
- B Zia ul-Haq
- C Nawaz Sharif

D Yusuf Raza Gilani

Answer: C

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Question 50

What is C_6H_6

A Hydro Carbon

B Hydro Chloric Acid

C Benzene

D Toluene

Answer: C

Question 51

What is Oneirology, the study of?

A Gods

B Dreams

C Sleep

D Colour

Answer: B

Question 52

Which was the host city of the first modern summer Olympic games held in 1896?

A Athens

B Paris

C London

D Amsterdam

Answer: A

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Question 53

I take a book from a library containing 378 pages to be returned in a week's time. If I can read 14 pages an hour for three hours daily, for how long should it be renewed so that the book can be fully read?

A 1 day

B 3 days

C 4 days

D 2 days

Answer: D

Explanation:

4 pages per hour .

He will read $14 \times 3 = 42$ pages in 3 hour.

So, he will take $(378/42) = 9$ days to complete the book .

So, he needs $(9-7) = 2$ days more to renew .

D is correct choice.

Question 54

Carl Sagan was

A An American astronomer

B British Physicist

C French Astronaut

D American President

Answer: A

Question 55

Eggs sold by a shopkeeper over a week is given in the table below.

Eggs sold in dozens

Day	Sales in dozen
Sunday	12
Monday	8
Tuesday	11
Wednesday	5
Thursday	9
Friday	10
Saturday	10

If the price of one egg was Rs.2.50, how much more did he earn on Friday than on Monday?

A 25 rupees

B 40 rupees

C 540 rupees

D 60 rupees.

Answer: D

Explanation:

Total earning in Friday = $12 \times 10 \times 2.5 = 300$ rs.

Total earning in Monday = $12 \times 8 \times 2.5 = 240$ rs.

So, he earned $(300-240) = 60$ rs more in Friday than Monday.

D is correct choice.

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Question 56

The mean of the marks scored by 12 students of a class is 67.4. If the mean of another class consisting of 15 students is 72.3, find their combined mean?

- A 70.12
- B 69.85
- C 71.23
- D 68.94

Answer: A

Explanation:

Total marks scored by first class is

$$=12 \times 67.4 = 808.8.$$

and total marks scored by second class is

$$=15 \times 72.3 = 1084.5.$$

So, total score made by $(15+12)=27$ students is $=(1084.5+808.8)=1893.3$.

So, average score of them $=1893.3/27=70.122$.

A is correct choice.

Question 57

If GUITAR = HTJSBQ, then VIOLIN =

- A WHPKHM
- B WHPKJM
- C WHKPHM
- D WHKPJM

Answer: B

Explanation:

GUITAR = HTJSBQ means that

G's next letter is H

U's previous letter is T

I's next letter is J

S's previous letter is T

A's next letter is B

Q's previous letter is R.

So, VIOLIN would be coded as WHPKJM.

B is correct choice.

Question 58

A man walks at a certain speed and reaches his destination which is 6 km away in 1 hr 40 minutes. If he runs the same distance in 1 hour 20 minutes, what is the difference in speed?

- A 1 km/hr
- B 0.9 km/hr
- C 1.5 km/hr
- D 1.9 km/hr

Answer: B

Explanation:

He covers 6 km in 1hr 40 min or 1.66hr

So, his speed was $= (6/1.66) \text{ km/hr} = 3.61 \text{ km/hr}$.

But he returned 6 km in 1 hr 20 min or 1.33 hr.

So, his return journey speed was

$(6/1.33) \text{ km/hr} = 4.51 \text{ km/hr}$.

So, difference between the two speed was

$= (4.51 - 3.61) \text{ km/hr} = 0.90 \text{ km/hr}$.

B is correct choice.

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Question 59

What is "Binary Electronic Sequence Calculator" (BESK), created in 1953?

- A Electronic computer
- B Analogous Computer
- C Digital Computer
- D A Banker's Calculator

Answer: A

Question 60

Find $\sin(90^\circ - \theta)$

- A $\cos 90^\circ$
- B $1/2$
- C 1
- D $\cos \theta$

Answer: D

Explanation:

We know that ,

$$\sin(A-B) = \sin(A)\cos(B) - \cos(A)\sin(B)$$

so,

$$\sin(90 - \theta)$$

$$= \sin 90 \cos \theta - \cos 90 \sin \theta$$

$$= 1 \times \cos\theta - 0$$

($\sin 90=1$ and $\cos 90=0$)

$$= \cos\theta.$$

D is correct choice.

Question 61

What is India's famous comic series started by Anant Pai called?

- A Raj Comics
- B Amar Chitra Katha
- C Tinkle
- D Chandamama

Answer: B

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Question 62

Find $(x + y)^2 - (x - y)^2$?

- A $2x^2y^2$
- B $4xy$
- C $2x^2 + 2y^2$
- D $x^2 - y^2 + 2xy$

Answer: B

Explanation:

$$(x + y)^2$$

$$= x^2 + 2xy + y^2.$$

and $(x - y)^2$

$$= x^2 - 2xy + y^2.$$

so,

$$(x + y)^2 - (x - y)^2$$

$$= (x^2 + 2xy + y^2) - (x^2 - 2xy + y^2)$$

$$= x^2 + 2xy + y^2 - x^2 + 2xy - y^2$$

$$= 4xy.$$

B is correct choice.

Question 63

The area of a rectangle is 42sq.cm and its length is 7cm. Find its perimeter.

- A 14 cm
- B 21 cm

C 26 cm

D 24 cm

Answer: C

Explanation:

Area of a rectangle=length × breadth.

According to the question,

breadth × 7=42.

or,breadth= 42/7=6.

So, perimeter of the rectangle

$= 2(\text{length} + \text{breadth})$

$= 2(7 + 6).$

$= 2 \times 13.$

$= 26.$

C is correct choice.

Question 64

If by selling 20 cycles Vinay incurs a loss equal to the selling price of 2 cycles, find his loss percentage.

A 10%

B 11%

C $13\frac{1}{3}\%$

D $9\frac{1}{11}\%$

Answer: D

Explanation:

According to question,

$20 (\text{c.p} - \text{s.p}) = 2 \times \text{s.p}$

$10 \text{ c.p} = 11 \text{ s.p}$

$(\text{s.p} \div \text{c.p}) = 10/11.$

Loss percentage = $(1 - \text{s.p}/\text{c.p}) \times 100$

$= (1 - 10/11) \times 100 = (1 - 10/11) \times 100$

$= 1/11 \times 100$

$= 9\frac{1}{11} \%$

D is correct choice.

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Question 65

Read the following and answer the question based on it.

Proteins are used by the body for energy, metabolism, gene growth and maintenance. 10 to 35 percent of the daily calorie intake should ideally consist of proteins. They are found in all cells of the body. Hair and nail are made up of a protein called keratin, having sulphur bonds. Curlier hair has more sulphur links. Too much intake of proteins can sometimes lead to body weight.

Proteins

- A Are not used by the body for any of its functions.
- B Are required by the body in adequate quantities.
- C Makes hair shiny, lengthy and black.
- D Do not cause weight gain.

Answer: B

Explanation:

In the first two sentences passage describes that :

Proteins are used by the body for energy, metabolism, gene growth and maintenance. 10 to 35 percent of the daily calorie intake should ideally consist of proteins.

Means proteins are essential factors for body maintenance.

As well as it is necessary for hair, nail.

But in last para it says that excecive protien leads to body weight.

So,Protiens are necessary element for human body but it must consume in limit.

So,B is correct choice.

Instructions

Consider the following information and answer questions based on it.

Five pickles - mango, lime, tomato, gooseberry and garlic are kept in five jars, in a row, in a random order, from left to right.

1. Gooseberry is not on either extremes.
2. There is one jar between mango and garlic.
3. Tomato is placed on the left side of lisme.
4. The second jar from the left contains garlic.

Question 66

There are two jars between which of the following

- A Lime and Gooseberry
- B Gooseberry and Tomato
- C Mango and Lime
- D Tomato and Mango

Answer: D

Explanation:



From (4) The second jar from the left contains garlic



From (2) There is one jar between mango and garlic. So, jar of Mango should be on second from right.



From (1) Gooseberry is not on either extremes. So, it should be in middle.



From (3) Tomato is placed on the left side of lime. So, Tomato jar should be on extreme left.

Tomato and Mango has two jars(Garlic and Gooseberry) in between them.

D is correct choice.

Question 67

Lime is in the jar from left.

- A Fifth
- B Fourth
- C Third
- D First

Answer: A

Explanation:



From (4) The second jar from the left contains garlic



From (2) There is one jar between mango and garlic. So, jar of Mango should be on second from right.



From (1) Gooseberry is not on either extremes. So, it should be in middle.



From (3) Tomato is placed on the left side of lime. So, Tomato jar should be on extreme left.

A is correct choice.

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Question 68

The middle jar contains

- A Mango
- B Tomato
- C Gooseberry
- D Lime

Answer: C

Explanation:



From (4) The second jar from the left contains garlic



From (2) There is one jar between mango and garlic. So, jar of Mango should be on second from right.



From (1) Gooseberry is not on either extremes. So, it should be in middle.



From (3) Tomato is placed on the left side of lime. So, Tomato jar should be on extreme left.

So, C is correct choice.

Instructions

For the following questions answer them individually

Question 69

What is an interstellar cloud of dust, hydrogen, helium and other ionized gases called?

- A Galaxy
- B Supernova
- C Nebula
- D Black Hole

Answer: C

Question 70

Where is the mosque, Adhai din ka Jhonpra located?

- A Agra

- B Ajmer
- C Ahmedabad
- D Mt.Abu

Answer: B

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Question 71

What is the official language in Bhutan?

- A English
- B Hindi
- C Dzongkha
- D Khmer

Answer: C

Question 72

If the mathematical operator '+' means 'x', '÷' means '-', '-' means '÷' and 'x' means '+', find the value of $1 + 2 \times 6 - 2 \div 7$

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

Answer: B

Explanation:

After rearrangement,

$$1 \times 2 + 6 \div 2 - 7$$

$$= 1 \times 2 + 3 - 7$$

$$= 2 + 3 - 7$$

$$= 5 - 7$$

$$= -2.$$

B is correct choice.

Question 73

When did Sikkim become a state of India?

- A 1975
- B 1973
- C 1972
- D 1950

Answer: A



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Question 74

What does PNR stand for?

- A Public Number in Railway
- B Passenger Name Record
- C Passenger Number Reservation
- D Priority Number in Reservation

Answer: B

Question 75

A politician distributed 285 kg of sugar among the people of a village counting 1487. Find out how much sugar does each person get.

- A 1.91 kg
- B 191 kg
- C 0.191 kg
- D 19.1 kg

Answer: C

Explanation:

Total sugar 285 kg.

Number of people 1487.

So, each person will get $(285/1487)$ kg

$=0.191$ kg.

C is correct choice.

Question 76

A sum borrowed at 6% p.a earns a simple interest which is 1/3rd of its principal in x years. Find x.

- A $\frac{5}{9}$
- B $\frac{2}{49}$
- C $\frac{3}{67}$
- D $\frac{3}{54}$

Answer: A

Explanation:

Let say , principal amount= P.

So, interest earn= $6Px/100$.

So, $(6Px/100)=P/3$

or, $P=(100)/(3 \times 6)$

or, $P=50/9$

So, $P=5^5$

A is correct choice.

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Question 77

+91 is the country calling code for which nation?

- A Canada
- B U.S.A
- C India
- D China

Answer: C

Question 78

What plant has the scientific name Solanum Tuberosum?

- A Potato
- B Tomato
- C Pumpkin
- D Onion

Answer: A

Question 79

Which signs should be interchanged if the equation below needs to be true?

$$2 \div 16 - 2 + 6 \times 1 = 0$$

- A x and -
- B - and +
- C - and ÷
- D + and x

Answer: C

Explanation:

If we interchange - and ÷ sign the equation will become:

$$2 - 16 \div 2 + 6 \times 1$$

$$= 2 - 8 + 6 \times 1$$

$$= 2 - 8 + 6$$

$$= 8 - 8$$

$$= 0.$$

So, C is correct choice.

Question 80

Who is called India's Child Surgeon?

- A Akrit Pran Jaswal
- B Tathalaat Avtar Tulsi
- C Nischal Narayanam
- D Sudhma Venna

Answer: A

Question 81

Yash sells vegetables at 40 per kg and incurs a loss of 10%. If the total loss incurred is 144, what is the weight of vegetables sold? (Rounded off)

- A 36 kg
- B 32.40 kg
- C 35 kg
- D 39.2 kg

Answer: B

Explanation:

Let yash sold x kg vegetables.

Loss incurred = 10%

Total loss incurred = Rs. 144

Total loss = 10% = 144

Total cost price = 100% = 1440

Selling price of vegetables per kg = Rs.40

$0.9 \times \text{cost price} = 40$

$\text{cost price} = 40 \times (10/9) = 400/9.$

$x = 1440 \div (400 / 9)$

$x = 32.40 \text{ kg}$

B is correct choice.

Question 82

Name the inter-governmental organization to promote international co-operation?

- A NATO
- B UN
- C WHO
- D IGO

Answer: B

Question 83

1.08 tonne = ? kg

- A 10800
- B 108
- C 1080
- D 1.08

Answer: C

Explanation:

1tonne=1000kg

So,1.08 tonne=1.08×1000=1080kg.

C is correct choice.

Question 84

Looking at a photo, Anand said, "This man is the eldest son of my father's mother-in-law". How is Anand's mother related to this man?

- A Mother
- B Daughter
- C Maternal Aunt
- D Sister

Answer: D

Explanation:

Father's mother-in-law means Anand's Mother's Mom.

Now,eldest son of Anand's Mother's Mom is Anand's Mother's brother.

So, Anand's mother is sister of that man.

D is correct choice.

Question 85

An assertion (A) and a reason (R) are given below.

Assertion (A): Leaves are green in colour.

Reason (R): Chlorophyll, a green pigment is present in leaves.

Choose the correct option.

- A Both A and R are true and R is the correct explanation of A
- B Both A and R are true, but R is not the correct explanation of A
- C A is true, but R is false
- D A is false, but R is true

Answer: A

Explanation:

Chlorophyll, a green pigment is present in leaves.

And Chlorophyll is the reason for green leaves.

So ,A is correct choice.

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Question 86

What is the opposite of Dharma?

- A Adharma
- B Karma
- C Moksha
- D Maya

Answer: A

Question 87

A statement followed by some conclusions are given below.

Statement: The price of pulses has increased steeply. Conclusions:

I. People cannot buy pulses.

II. Pulses have become a rare commodity.

Find which of the given conclusions logically follow from the given statement.

- A Only conclusion I follows.
- B Only conclusion II follows.
- C Both I and II follow.
- D Neither I nor II follows.

Answer: D

Explanation:

The price of pulses has increased steeply.

Those people, who have enough money, can buy pulses.

So, conclusion I is not right.

Statement also implies that price of pulse may be directly proportional with demand and supply of pulses.

So, conclusion II is also not right.

D is correct choice.

Question 88

Who has never been a Vice President of India?

- A Mohammad Hamid Ansari
- B A P J Abdul Kalam
- C Ramaswamy Venkataraman
- D Shankar Dayal Sharma

Answer: B

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Question 89

Solve: $1 + \tan^2 \theta = ?$

- A $\cos^2 \theta$
- B $\sec^2 \theta$
- C $\tan^2 \theta$
- D 2

Answer: B

Explanation:

$$1 + \tan^2 \theta$$

$$= 1 + (\sin^2 \theta) / (\cos^2 \theta)$$

=

$$(\cos^2 \theta + \sin^2 \theta) / \cos^2 \theta$$

$$= 1 / \cos^2 \theta$$

(we know that $\sin^2 \theta + \cos^2 \theta = 1$)

$$= \sec^2 \theta.$$

$$(\cos \theta = 1 / \sec \theta)$$

B is correct choice.

Question 90

If x is an even number, what is the consecutive odd number?

- A $x-1$
- B $x+1$
- C $x+2$
- D $x-2$

Answer: B

Explanation:

Let say, $x=2$, which is an even number.

So, next odd number is 3.

So, consecutive odd number appears in $(x+1)$ form.

B is correct choice.

Question 91

Select the alternative that shows a similar relationship as the given pair - Truthful : Honest

- A Notwithstanding : Nevertheless
- B Including : Excluding
- C Winning : Losing
- D Procuring : Disposing

Answer: A

Explanation:

Truthful and Honest are similar words.

Similarly, Notwithstanding and Nevertheless are similar words.

Pairs in other options are opposite words.

A is correct choice.

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Question 92

Four pairs of words are given. Find the odd one out.

- A Ear : Hearing
- B Tongue : Taste
- C Mouth : Speech
- D Light : Vision

Answer: D

Explanation:

Ear:Hearing=> Ear is use to hear sound.

Tounge:Taste=> Tounge helps to taste flavour.

Mouth:Speech=> Mouth helps to deliver speeches.

Light:Vision ==>

Vision is an imagination that you depict in your mind.Light can't help to see Vision.

So,this is the odd one.

D is correct choice.

Question 93

If INSECT = @&*!#\$ and OR = %?, then CISTERN =

- A #@*\$!%&
- B #@*\$?!&
- C #@*\$!?!&
- D #@*\$%!&

Answer: C

Explanation:

INSECT = @&*!#\$ and OR = %? implies that:

I=@, N=&, S=*, E=!, C=#, T=\$, O=% AND R=?.

So,

CISTERN=#@*\$!?!&.

C is correct choice.

Question 94

How many litres of water can be stored in a tank of 1m length, 1/2 m breadth, and 1/2 m tall?

- A 25,000
- B 250
- C 25
- D 2,500

Answer: B

Explanation:

$$V = 1 \times 0.5 \times 0.5 = 0.25 \text{m}^3$$

We know that 1L = 0.001m³. Therefore we can use dimensional analysis.

$$V = 0.25 \text{m}^3 \times (1\text{L}/0.001\text{m}^3)$$

$$= 250 \text{ Litres.}$$

B is correct choice.

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Question 95

What was recently discovered hidden under ice in Antarctica?

- A A massive mountain range
- B A lost Kingdom
- C A massive canyon system and lake
- D A huge Dinosaur Skeleton

Answer: C

Question 96

Jane won a lottery and gets $\frac{1}{3}$ rd of the winning amount and donates Rs.6000 which is $\frac{1}{6}$ th, find how much the lottery was worth.

- A 36000
- B 18000
- C 54000
- D 108000

Answer: D

Explanation:

Let the lottery worth = Rs. x

Winning amount = $\frac{x}{3}$.

Donated amount = $6000 = (\frac{x}{3}) \times (\frac{1}{6})$.

So, x = 108000 Rs.

D is correct choice.

Question 97

Find the difference between the place value and face value of the digit 9 in the number 229301?

- A 9292
- B 8991
- C 0
- D 220

Answer: B

Explanation:

Place value of 9 in the given number is 9000 and face value itself 9.

So their difference is $(9000-9)=8991$.

B is correct choice.

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Question 98

The sum of two numbers is 437 and their product is 21982. Find the numbers.

- A 399 and 38
- B 295 and 142
- C 58 and 379
- D 323 and 114

Answer: C

Explanation:

Let the two numbers be x and y

$$x + y = 437 \dots\dots\dots(1)$$

$$xy = 21982$$

$$(x - y)^2 = (x+y)^2 - 4xy$$

$$(x - y)^2 = 103041$$

$$(x - y) = 321 \dots\dots\dots(2)$$

By solving (1) & (2) we get,

$$x = 379 \text{ and } y = 58.$$

C is correct choice.

Question 99

What is the gravitational force exerted on a mass, called?

- A Stress
- B Inertia
- C Weight
- D Work

Answer: C

Question 100

A bank agrees to lend a loan to Arvind of Rs. 2,38,75,697 which falls short by 17% for starting his business. How much more loan would he need?

- A 4890203
- B 4375303
- C 5700108
- D 5125533

Answer: A

Explanation:

Let the amount need by Arvind to start business = Rs. x

The amount loaned to him is 17% less than what he needs to start his business. Hence,

$$x - (17\% \text{ of } x) = \text{Rs. } 23875679$$

$$0.83x = \text{Rs. } 23875679$$

$$x = \text{Rs. } 28765900 \text{ (approx.)}$$

Amount Arvind needs after obtaining the bank loan = $28765900 - 23875697 = \text{Rs. } 4890203$.

A is correct choice.

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