



RRB NTPC 31 March 2016 Shift 2

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Instructions

For the following questions answer them individually

Question 1

Bonny is the daughter of Indu's brother. Indu has one sister, Chanda and one brother, Gopal. How is Bonny related to Gopal?

- A Sister
- B Father
- C Daughter
- D Niece

Answer: C

Explanation:

Bonny is the daughter of Indu's brother Gopal because from question it indicates Indu have only one brother Gopal so, Bonny is the daughter of Gopal.

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Question 2

Find the missing (?) in the series
NA, QD, ?, WJ, ZM

- A SF
- B TG
- C UH
- D VI

Answer: B

Explanation:

N	A,	Q	D,	T	G,	W	J,	Z	M
+3		+3		+3		+3			
	+3		+3		+3		+3		

Question 3

Three categories of employees get wages in the ratio of 1:2:3. If they get increments of 5%, 10% and 15% respectively, what will be the new ratio of their wages?

- A 21:44:69
- B 7:22:23
- C 7:44:23
- D 21:22:23

Answer: A

Explanation:

Let the three categories of employees get wages = 100, 200 and 300

After increment of 5%, 10% and 15% = 105, 220, 345

Required ratio = 105 : 220 : 345 = 21 : 44 : 69.

Question 4

Hindustan Socialist Republican Association was founded by

- A Subhash Chandra Bose
- B Vinayak Damodar Savarkar
- C Jayaprakash Narayan
- D Bhagat Singh

Answer: D

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Question 5

Three freedom fighters including Bipin Chandra Pal were popularly known as Lal-Bal-Pal. Who were the other two?

- A Subhash Chandra Bose & Bal Gangadhar Tilak
- B Bal Gangadhar Tilak & Lala Lajpat Rai
- C Lala Lajpat Rai & Bhagat Singh
- D Ram Prasad Bismil & Bhikaiji Cama

Answer: B

Question 6

The maximum number of columns in the new MS Excel worksheet is

- A 2^8
- B 2^{10}
- C 2^{12}
- D 2^{14}

Answer: E

Explanation:

maximum number of columns in the new MS Excel worksheet = 16384 = 2^{14}

Question 7

The area of a circle is 616 sq.m. Find its diameter. ($\pi = 22/7$)

- A 7m
- B 14m
- C 28m

D 56m

Answer: C

Explanation:

Area of the circle = πr^2

$$616 = \frac{22}{7} \times r^2$$

$$r^2 = 196$$

$$r = 14 \text{ m}$$

Hence diameter = $2r = 28 \text{ m}$

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Question 8

Find the median mode and mean of 9, 5, 8, 9, 9, 7, 8, 9, 8.

A 9, 9, 9

B 9, 8, 9

C 8, 9, 8

D 8, 9, 9

Answer: C

Explanation:

Means is average of given data set = $\frac{9+5+8+9+9+7+8+9+8}{9} = \frac{72}{9} = 8$

Median means middle number of the given set after arranging in increasing order so, 5, 7, 8, 8, 8, 9, 9, 9, 9

$$= \left(\frac{n+1}{2}\right)^{\text{th}} \text{ term} = \frac{9+1}{2} = 5^{\text{th}} \text{ term} = 8$$

Mode is the values which occurs most in the set = 9 occurs 4 times

so, 9 is mode.

Question 9

Which one of the following cities, is included in the first list of 20 proposed smart cities under the 'Smart Cities Mission' released by the Union Government in January 2016?

A Guwahati

B Mumbai

C Vadodara

D Kolkata

Answer: A

Question 10

'Gallon' is commonly used

A To refer to speed.

B To refer to a container.

C As a measure of volume.

D To express containers in terms of barrel.

Answer: C

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Question 11

Which one of the following countries does not have football as their national sport?

- A Ghana
- B Hungary
- C Argentina
- D Mauritius

Answer: C

Question 12

Kurukshetra, the famous battle field mentioned in Mahabharata was located near

- A Rawalpindi
- B Meerut
- C New Delhi
- D Ambala City

Answer: D

Question 13

How many millimeters make ten kilometers?

- A 10^{10}
- B 10^9
- C 10^8
- D 10^7

Answer: D

Explanation:

1 metre = 1000 mm = 10^3 mm

1000 metre = 1 km = 10^6 mm

10 km = $10^6 \times 10 = 10^7$ mm.

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Question 14

The most active ingredient in bleaching powder is

- A Iodine

- B Calcium hypochlorite
- C Nitric acid
- D Ammonium sulphate

Answer: B

Question 15

The Central Government granted a certain sum towards flood relief to 3 states A, B, and C in the ratio 2:3:4. If C gets Rs. 400 Crores more than A, what is the share of B?

- A Rs. 400 crore
- B Rs. 200 crore
- C Rs. 600 crore
- D Rs. 300 crore

Answer: C

Explanation:

Let the ratio of sum towards flood to 3 states A, B and C be $2x$, $3x$ and $4x$

C gets Rs. 400 Crores more than A

According to the question,

$$2x + 400 = 4x$$

$$2x = 400$$

$$x = 400/2 = 200$$

$$\text{Share of B} = 3x = 3 \times 200 = \text{Rs. } 600$$

Question 16

Cricketer Virat Kohli was honoured with Arjuna Award in the year

- A 2011
- B 2012
- C 2013
- D 2014

Answer: C

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Question 17

The instrument used to determine the rotation speed of a shaft is called

- A Speedometer
- B Tachometer
- C Anemometer
- D Chronometer

Answer: B

Question 18

Find the greatest length which can be used to measure exactly three cloth pieces of lengths 1.26 m, 1.98 m and 1.62 m respectively.

- A 12 cm
- B 14 cm
- C 16 cm
- D 18 cm

Answer: D

Explanation:

Length which can be used to measure exactly three cloth pieces of lengths 1.26 m, 1.98 m and 1.62 m respectively = HCF of 126 cm, 198 cm and 162 cm = 18 cm.

Question 19

Slave Dynasty was founded by

- A Qutbuddin Aibak
- B Mahmud Ghazni
- C Muhammad Ghori
- D Razia Sultana

Answer: A

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Question 20

Exobiology refers to

- A Life in outer space.
- B Life of animals.
- C Life of plants.
- D Life of human beings on earth.

Answer: A

Question 21

A call center recruits candidates with the following criteria

1. Candidates should have passed at least 10th standard.
2. Candidates must be fluent in English and Hindi.
3. Candidates must be ready to work in both day and night shifts.

Which candidate among the following will the call center definitely take?

- A Seeta is a graduate, fluent in Marathi, Hindi and English and can work only in day shift.
- B Sarita is fluent in English, Tamil and Hindi, can work in both shifts and has had no formal education.

- C Smita speaks English and Hindi very well, is ready for day as well as night shifts and has studied till 12th standard.
- D Savita can work in both shifts, has passed 10th standard with 65% and speaks fluent Hindi and Marathi.

Answer: C

Explanation:

Option A= Seeta is not ready to do work in night shift.

Option B = Sarita is not 10th passed

Option C = Smita is full filling every criteria given by call center

Option D = Savita is not speaking english

Question 22

What will be the maturity value, if Rs. 13,500 is deposited at a simple rate of interest of 12.5% for two years?

- A Rs. 15,187.50
- B Rs. 16,875.00
- C Rs. 16,875.50
- D Rs. 16,785.00

Answer: B

Explanation:

$$S.I = \frac{P \times T \times R}{100}$$

$$S.I = \frac{13500 \times 12.5 \times 2}{100} = 3375$$

$$A = P + S.I = 13500 + 3375 = \text{Rs } 16875.$$

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Question 23

Study of earth is known as

- A Ecology
- B Biology
- C Ethology
- D Geology

Answer: D

Question 24

School W in a village, provides education from nursery to standard 4. In the same village, School B and school K provide education from standard 5 to 10. School F, which is in a nearby town, provides higher secondary education, that is, standard 11th and 12th only. The village has only three schools. Parents in the village have requested for more schools to the local panchayat. Which conclusion follows the given statements?

- A Schools are less in the village because parents do not want their children to study.
- B Due to lack of teachers, village schools cannot compete with town schools.
- C For higher secondary education, children of the village have to travel to the nearby town.

D Parents will send their kids to town, if school F provides primary education too.

Answer: C

Explanation:

School W in a village, provides education from nursery to standard 4. In the same village, School B and school K provide education from standard 5 to 10. **School F, which is in a nearby town, provides higher secondary education, that is, standard 11th and 12th only.** The village has only three schools. Parents in the village have requested for more schools to the local panchayat as their children needs to travel and also there are only 3 schools.

Hence, conclusion C is correct.

Question 25

The difference between the ages of mother and son was 21 when mother's age was 43. If father is elder by 3 years to mother, what will be the difference between the ages of son and father when father attains 50 years?

A 21

B 22

C 23

D 24

Answer: D

Explanation:

Mother's age = 43 years, let son's age be x years

So, $43 - x = 21$

$x = 22$, Hence, son's age = 22 years

Father age = $43 + 3 = 46$ years

Now when father becomes 50 years the son's age will be $22 + 4 = 26$ years

So, required difference = $50 - 26 = 24$ years.

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Question 26

A shop keeper purchased 15 kg of sugar and 20 kg of wheat at Rs. 50 and Rs. 75 per kg respectively. On selling them, he gained 10% on sugar and 20% on wheat. What was the total sale value?

A Rs. 2,550

B Rs. 2,625

C Rs. 1,800

D Rs. 1,575

Answer: B

Explanation:

C.P of 15 kg sugar = $15 \times 50 = 750$

S.P of sugar at 10% gain = $750 \times \frac{110}{100} = 825$

C.P of 20 kg sugar = $15 \times 75 = 1500$

S.P of sugar at 20% gain = $1500 \times \frac{120}{100} = 1800$

Total sale value = $825 + 1800 = \text{Rs } 2625$.

Question 27

Select the alternative that shows a different relationship as the given pair -
Crude : Raw

- A Isolation : Separation
- B Distinguished : August
- C Assert : Hide
- D Stop : Conclude

Answer: C

Question 28

X can finish 25% of a work in a day. Y can do 12.5% of the same work in a day. In how many days, will both of them finish the work together?

- A 2.67 days
- B 2.33 days
- C 3.33 days
- D 3.67 days

Answer: A

Explanation:

X finished 25% in 1 day

So, X can finish 100% in 4 days

Y finished 12.5% in 1 day

So, Y can finish 100% in 8 days

100% means complete work

Both together can finish the work = $\frac{1}{4} + \frac{1}{8} = \frac{12}{32} = \frac{3}{8} = \frac{8}{3} = 2.67$ days.

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Question 29

If $x + 2y = 27$ and $x - 2y = -1$. find the value of y.

- A 13
- B 14
- C 7
- D 26

Answer: C

Explanation:

$x + 2y = 27$ -----I

$x - 2y = -1$ -----II

Adding I and II we get,

$$2x = 26$$

$$x = 13 \text{ and } y = 7.$$

Question 30

When did Bangladesh become an independent parliamentary democracy?

- A December, 1971
- B January, 1972
- C March, 1972
- D February, 1972

Answer: B

Question 31

Find the smallest of the following decimals.

- A $0.2 \times 0.2 \times 0.2$
- B $0.02 / 3$
- C $0.01 / 2$
- D $0.1 \times 0.02 \times 2$

Answer: D

Explanation:

$$A = \frac{2}{10} \times \frac{2}{10} \times \frac{2}{10} = \frac{8}{1000}$$

$$B = \frac{0.02}{3} = \frac{2}{100 \times 3} = \frac{20}{3000} = \frac{6.666}{1000}$$

$$C = \frac{0.01}{2} = \frac{1}{200} = \frac{0.5}{100} = \frac{5}{1000}$$

$$D = \frac{1}{10} \times \frac{2}{100} \times 2 = \frac{4}{1000}$$

Since all the denominators are the same, the number with the lowest numerator will be the smallest fraction.

Hence option D.

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Question 32

Find the range of the data 2, 1, 2, 3, 5, 4, 7, 3, 5, 2, 4.

- A 5
- B 4
- C 3
- D 6

Answer: D

Explanation:

Range of data means Difference between highest and lowest term i.e $7 - 1 = 6$.

Question 33

A person with blood group AB

- A Can donate blood to persons with blood group A, B and O.
- B Is called universal blood donor.
- C Can receive blood from any group.
- D Is neither a universal recipient nor a donor.

Answer: C

Question 34

You purchased two pieces of cloth measuring 1.2 m and 1.3 m each at Rs. 330 and Rs. 270 per meter respectively and gave Rs. 1000 at the payment counter. How much cash will you get back?

- A Rs. 253
- B Rs. 604
- C Rs. 649
- D Rs. 235

Answer: A

Explanation:

$$\text{C.P of two pieces of cloths} = 1.2 \times 330 + 1.3 \times 270 = 747$$

$$\text{He will get back} = 1000 - 747 = \text{Rs } 253.$$

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Question 35

Which one of the following does not belong to the group?

- A Android
- B BADA
- C DOS
- D Symbian

Answer: C

Question 36

Find the odd one out among the following.

- A ECS
- B RTGS
- C NEFT
- D EMI

Answer: D

Explanation:

EMI is process of repayment of loan and other options are involved in fund transfer.

Question 37

What is the difference between the maturity values, if Rs. 12,500 is invested for 2 years at 20% per annum simple interest and compound interest?

- A Rs. 750
- B Rs. 650
- C Rs. 550
- D Rs. 500

Answer: D

Explanation:

$$S.I = \frac{P \times T \times R}{100}$$

$$= \frac{12500 \times 20 \times 2}{100} = 5000$$

$$A = P + S.I = 12500 + 5000 = 17500$$

$$\text{For C.I, } A = P \left(1 + \frac{r}{100}\right)^n$$

$$A = 12500 \left(1 + \frac{20}{100}\right)^2$$

$$A = 12500 \times \frac{120}{100} \times \frac{120}{100}$$

$$A = 18000$$

$$\text{Required difference} = 18000 - 17500 = 500.$$

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Question 38

Under the Indian Constitution, legislative powers are vested with the

- A President
- B Prime Minister
- C Union Council of Ministers
- D Parliament

Answer: D

Question 39

When a person can see only nearby objects, the condition is called

- A Hypermetropia
- B Astigmatism
- C Myopia
- D Retinopathy

Answer: C

Question 40

The speed of car B is half the speed of car A. If car A covers a distance of 120 km in 1 1/2 hours, what is the speed of car B?

- A 40 kmph
- B 60 kmph
- C 30 kmph
- D 50 kmph

Answer: A

Explanation:

If car A covers a distance of 120 km in 1 1/2 hours. Then speed = $\frac{\text{distance}}{\text{time}}$

$$= \frac{120}{1.5} = \frac{120 \times 2}{3} = 80$$

Hence speed of car A = 80 kmph

Now speed of car B = $80 \div 2 = 40$ kmph

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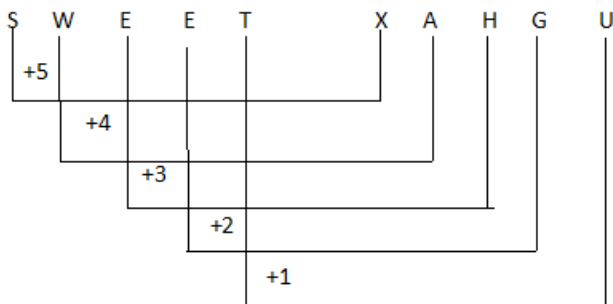
Question 41

If SWEET is written as XAHGU, then HORSE is

- A MSUVF
- B MTVUF
- C MTVUD
- D MSUUF

Answer: D

Explanation:



In the same way HORSE is written as MSUUF.

Instructions

Consider the following information and answer questions based on it.

Five people P, Q, R, S and T visit an office on certain days of a week. They work as a plumber, carpenter, cook, electrician and doctor in random order. A person pursues only one profession and visits the office only one day in the week.

1. The plumber visits office every Monday.
2. P is an electrician who comes neither on Tuesday nor Thursday.
3. T is a carpenter and R is not plumber.
4. The person who visits the office on Thursday is not a doctor.
5. S works on a Tuesday and T works on the following day.

Question 42

Which is the right combination?

- A Monday - Electrician
- B Thursday - Cook
- C Tuesday - Carpenter
- D Friday - Doctor

Answer: B

Explanation:

Day	Person	Profession
Monday	Q	Plumber
Tuesday	S	Doctor
Wednesday	T	Carpenter
Thursday	R	Cook
Friday	P	Electrician

Right combination is Thursday cook.

Instead of final figure a step by step explanation is required.

Question 43

The doctor visits the office on

- A Fridays
- B Wednesdays
- C Thursdays
- D Tuesdays

Answer: D

Explanation:

Day	Person	Profession
Monday	Q	Plumber
Tuesday	S	Doctor
Wednesday	T	Carpenter
Thursday	R	Cook
Friday	P	Electrician

Doctor visits on tuesday.

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Question 44

Who is the plumber?

- A Q
- B S
- C R

D T

Answer: A

Explanation:

Correct sequence is :



Day	Person	Profession
Monday	Q	Plumber
Tuesday	S	Doctor
Wednesday	T	Carpenter
Thursday	R	Cook
Friday	P	Electrician

Hence, Q is a plumber.

Instructions

For the following questions answer them individually

Question 45

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

Assertion (A): Mangoes are sweet when they are ripe.

Reason (R): Mangoes are available mainly in summer in India.

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: B

Explanation:

Assertion (A) is correct because we know that if mangoes are ripe then it will be sweet in taste.

Reason (R) is correct because in India mangoes is found in summer.

But Reason is not to prove the assertion.

S, option B is correct.

Question 46

Statements followed by some conclusions are given below.

Statements:

1. Sam sleeps more than Ram who sleeps only for 5 hours every day.
2. Shyam sleeps for 8 hours which is lesser than Sam's by 2.

Conclusions:

- I. Sam sleeps for 6 hours.
- II. Ram has a bad sleeping habit.

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:

From given statements we are not able to find any of the given conclusions.

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Question 47

What number, from the following, should be deducted from 1184 to make it exactly divisible by 21?

- A 15
- B 12
- C 8
- D 7

Answer: C

Explanation:

Dividing 1184 by 21 we get quotient 56 and remainder 8. So we will deduct 8 then the resultant number will be divisible by 21.

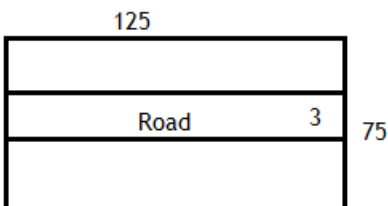
Question 48

A rectangular playground ground of length 125m and width 75m, has a walking strip of width 3m in the middle of the ground, along the longer side. What is the area of the ground without the walking strip?

- A 9375 sq.m
- B 9000 sq.m.
- C 9750 sq.m
- D 13625 sq.m

Answer: B

Explanation:



Area of rectangle without road = Area of rectangle with road - Area of road

$$(125 \times 75) - (125 \times 3)$$

9000 sq.m

Question 49

Cultivation is difficult on red soil because

- A Its water holding capacity is less.
- B It is highly contaminated.
- C Biological components do not mix with it.
- D It is red in colour.

Answer: A

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Question 50

The United Nations Development Programme (UNDP) focusses on

- A Solutions to global development challenges.
- B Developing nations.
- C Under-developed nations.
- D Developed nations.

Answer: A

Question 51

If Sun : Star then Moon :

- A Star
- B Planet
- C Comet
- D Satellite

Answer: D

Explanation:

Sun is a star in the same way moon is a satellite.

Question 52

Find the missing number (?) in the series

1, 1, 4, 8, 9, ?, 16, 64

- A 21
- B 23
- C 25
- D 27

Answer: D

Explanation:

1,	1,	4,	8,	9,	27,	16,	64
↓	↓	↓	↓	↓	↓	↓	↓
1^2	1^3	2^2	2^3	3^2	3^3	4^2	4^3

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Question 53

Find the HCF of 48, 92 and 140.

- A 8

B 6

C 4

D 3

Answer: C

Explanation:

We will find the prime factorisation

$$48 = 1 \times 2^4 \times 3$$

$$92 = 1 \times 2^2 \times 23$$

$$140 = 1 \times 2^2 \times 5 \times 7$$

Highest common factor is $2^2 = 4$.

Question 54

If mathematical operators '-' and '÷' are interchanged, then the value of $15 \times 4 + 15 - 11 \times 33 \div 98$ is

A 6

B 7

C 8

D 9

Answer: B

Explanation:

$$15 \times 4 + 15 - 11 \times 33 \div 98$$

After interchanging the sign '-' and '÷'

$$15 \times 4 + 15 \div 11 \times 33 - 98$$

$$15 \times 4 + \frac{15}{11} \times 33 - 98$$

$$60 + 45 - 98$$

7

Question 55

The standard deviation of the set {10, 11, 12, 9, 8} is

A 1.6

B $\sqrt{2}$

C 2

D $2\sqrt{2}$

Answer: A

Explanation:

x	Y = Average of given set	(x-y) ²
10	10	(10-10) ² = 0
11	10	(11-10) ² = 1
12	10	(12-10) ² = 4
9	10	(9-10) ² = 1
8	10	(8-10) ² = 4

$$\text{Standard deviation} = \sqrt{\frac{\sum (x-y)^2}{N-1}} = \sqrt{\frac{10}{4}} = \frac{\sqrt{10}}{2} = 1.58 \sim 1.6$$

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Question 56

Looking at a lady, Joey said, "She is the mother of my mother's mother-in-law's husband". How is the lady related to Joey's father?

- A Mother
- B Aunt
- C Mother-in-law
- D Grandmother

Answer: D

Question 57

One Gigabyte =? (in decimal value)

- A 1000 bytes
- B 1000² bytes
- C 1000³ bytes
- D 1000⁴ bytes

Answer: C

Question 58

'Peace Prize' is given toThe annual award of 'Gandhi

- A Individuals only
- B Institutions only
- C Individuals and institutions
- D Group of institutions

Answer: A

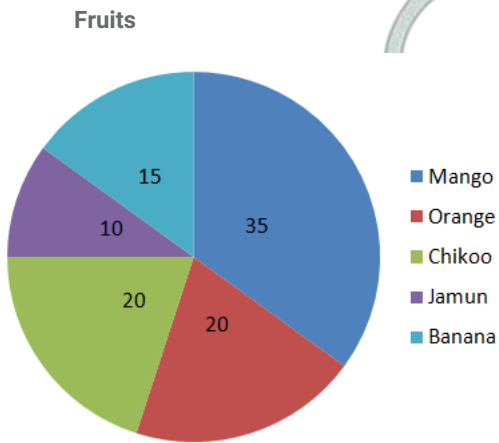
Explanation:

The Gandhi Peace Award is an award and cash prize presented annually from 1960 by individuals for "contributions made in the promotion of international peace and good will.

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Instructions

Consider the chart and answer questions based on it.
The following pie chart shows fruit tree distribution in a farm land.



Question 59

The sector angle corresponding to the Banana is

- A 90°
- B 54°
- C 72°
- D 36°

Answer: B

Explanation:

Total angle in pie chart = $360^\circ = 100\%$

Sector angle corresponding to the Banana = $\frac{360}{100} \times 15 = 54\%$.

Question 60

What is the ratio of Chikoo and Mango trees to that of Jamun, Orange and Banana trees in the farm land?

- A 1
- B 1:3
- C 11:9
- D 3:1

Answer: C

Explanation:

Required ratio = $(20 + 35) : (10 + 15 + 20) = 55 : 45 = 11 : 9$.

Question 61

If there are in all 960 trees, then how many of them are Mango trees?

- A 192
- B 288
- C 384

D 336

Answer: D

Explanation:

Total trees = 960 = 100%

Percentage of mango trees = 35%

Number of mango trees = $\frac{35}{100} \times 960 = 336$.

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Instructions

For the following questions answer them individually

Question 62

The concept of Triratna belonged to

- A Sikhism
- B Jainism
- C Buddhism
- D Zoroastrianism

Answer: C

Explanation:

The Triratna is a Buddhist symbol, it represent the three Jewels of Buddhism.

So, option C is correct.

Question 63

What is meant by space tourism?

- A Scientific space exploration.
- B Space travel for leisure.
- C Touring the world only by flight.
- D Reaching out to Mars.

Answer: B

Question 64

Which country among the following is the smallest in terms of area?

- A Brazil
- B India
- C Canada
- D Russia

Answer: B

Explanation:

Brazil = 8.511 million square km

Canada = 9.985 million square km

India = 3.287 million square km

Russia = 17.1 million square km

So, area of India is smallest among them.

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Question 65

Why does a piece of cloth, which appears green in sunlight, appear black when it is viewed under red light?

- A The cloth completely absorbs red colour wavelength.
- B It is due to refraction.
- C It is the effect of scattering of light.
- D It is due to parallax error.

Answer: A

Explanation:

If a piece of cloth which appears green in sunlight is seen under red light it will appear black, because the pigments on the surface of that cloth have the property of reflecting only green light absorbing all other wavelengths falling on it.

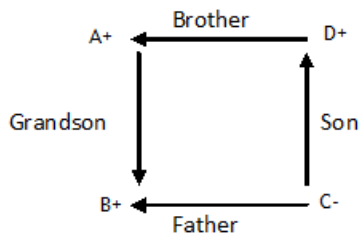
Question 66

A is D's brother. D is the son of Mrs. C. B is Mrs. C's father. How is A related to B?

- A Grandson
- B Brother
- C Son
- D Grandfather

Answer: A

Explanation:



Question 67

If S means '+', L means '×', U means '÷' and K means '-', then the value of 21 S 1 U 7 L 15 U 6 L 14 K 55 is

- A -50
- B 26
- C -29

D 29

Answer: C

Explanation:

21 S 1 U 7 L 15 U 6 L 14 K 55

After replacing the letters with given symbols

$$21 + 1 \div 7 \times 15 \div 6 \times 14 - 55$$

$$21 + \frac{1}{7} \times \frac{15}{6} \times 14 - 55$$

$$26 - 55$$

$$-29.$$

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Question 68

In a certain coding language, 'Ginger is a root' is written as 4123, 'A tree has a root' is 75422 and 'Tree is green' is 385. . Which digit represents 'root'?

A 4

B 5

C 3

D 2

Answer: A

Explanation:

Ginger	is	a	root	=	4	1	2	3
--------	----	---	------	---	---	---	---	---

A tree	has	a	root	=	7	5	4	2	2
--------	-----	---	------	---	---	---	---	---	---

Tree	is	green	=	3	8	5
------	----	-------	---	---	---	---

Digit 4 represents 'root'.

Question 69

Hirakud reservoir is built across the river

A Sutlej

B Godavari

C Mahanadi

D Narmada

Answer: C

Question 70

Which of the following authority is elected on the basis of proportional representation in India?

- A Prime Minister
- B President
- C Governor
- D Lok Sabha Speaker

Answer: B

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Question 71

How many players, on each side, are required for the game of volleyball?

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

Answer: A

Question 72

A man traveled at 40 kmph. Had he increased his speed by 16 kmph, he would have covered 80 km more in the same time. Find the actual distance travelled?

- A 400 km
- B 200 km
- C 300 km
- D 480 km

Answer: B

Explanation:

Let actual distance be x km

Speed = 40 kmph

Increased speed = $40 + 16 = 56$ kmph

New distance = $(x + 80)$ km

Time is same given in question,

$$\text{Time} = \frac{\text{Distance}}{\text{Speed}}$$

According to the question,

$$40 = \frac{x}{56}$$

$$56x = 40x + 3200$$

$$16x = 3200$$

$$x = 200 \text{ km.}$$

Question 73

AC is converted into DC by a

- A Condenser
- B Rectifier
- C Amplifier
- D Filter

Answer: B

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Question 74

Which one among the following does not belong to the group?

- A Maestro
- B Visa
- C Master
- D Credit Card

Answer: D

Explanation:

Master, Visa and Mastero are types of payment method and Credit card is card which have either these three Master, Visa and Mastero payments method.

So, Credit card doesnot belong to this group.

Question 75

Statements followed by some conclusions are given below.

Statements:

1. Smoking is injurious to health and one of the causes of cancer.
2. Government has prohibited smoking in public places.

Conclusions:

- I. Smoking causes cancer.
- II. Sale of cigarette should be banned.

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: A

Explanation:

From statement I it is clear that smoking causes cancer so conclusion I follows.

But from both statement it is not clear that sale of cigarette should be banned.

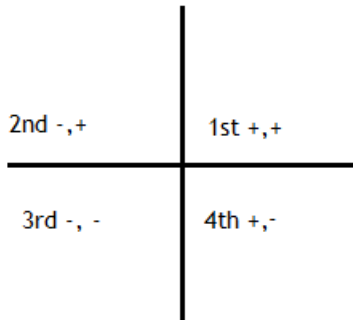
Question 76

In which quadrant, will the point (4, -2) be located?

- A I
- B II
- C III
- D IV

Answer: D

Explanation:



Hence, 4, -2 will be located in 4th quadrant.

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Question 77

If SELFIE = LXKEYBX, then PHYSICS =

- A IARLBVL
- B IARLBJL
- C IARBLJL
- D IARBLVL

Answer: A

Question 78

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

- A Horse : Calf
- B Deer : Fawn
- C Fish : Fry
- D Goat : Kid

Answer: A

Question 79

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

- A OENS

- B KWLA
- C ALIN
- D EDAH

Answer: B

Explanation:

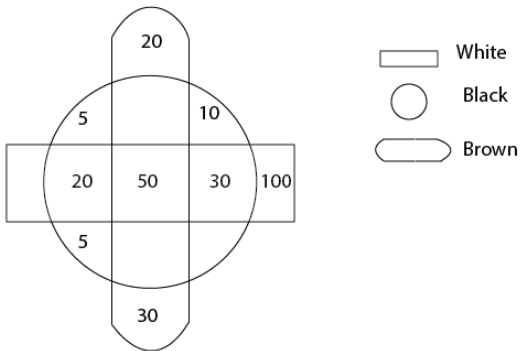
- A- NOSE
- C- NAIL
- D- HEAD
- B - WALK

Except B which is a style, all others are parts of body.

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Instructions

Study the following diagram and answer questions based on it.
The colour preferences of children are Given.



Question 80

How many children like both brown and white but not black?

- A 10
- B 20
- C 50
- D None

Answer: D

Question 81

The ratio of children who like brown to those who like black is

- A $5/3$
- B $1/2$
- C 1
- D $5/6$

Answer: D

Question 82

The ratio of kids who do not like black to those who like only black and white are

- A 3:1
- B 3:2
- C 12:5
- D 5:12

Answer: A

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Instructions

For the following questions answer them individually

Question 83

'Grand Slam' refers to winning certain major tennis tournaments in a single calendar year. The name of the tournaments are

- A Australian Open, French Open and US Open
- B Australian Open, French Open, US Open and Wimbledon
- C French Open, US Open and Wimbledon
- D French Open, US Open, Wimbledon and Olympic

Answer: B

Explanation:

The tennis Grand Slam consists of the four most difficult major tournaments on the international circuit and the tournaments are Australian Open, French Open, US Open and Wimbledon.

Question 84

Find the value of $X^3(X^3 - X^2 - X)$, when $X = 4$

- A 2816
- B 3328
- C 2516
- D 3332

Answer: A

Explanation:

$$X^3(X^3 - X^2 - X)$$

$$X = 4$$

$$4^3(4^3 - 4^2 - 4)$$

$$64(64 - 16 - 4) = 2816.$$

Question 85

With effect from 1st April 2010, banks have been allowing interest on saving account balance on

- A Annual basis
- B Half yearly basis
- C Quarterly basis
- D Daily basis

Answer: D

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Question 86

$$97 \times 97 = ?$$

- A 9391
- B 9409
- C 9049
- D 9309

Answer: B

Explanation:

$$97 \times 97$$

$$97 \times (100 - 3)$$

$$9700 - 291 = 9409.$$

Question 87

Which of the following statement is true?

- A Global warming and climate change are two different issues.
- B Global warming will reduce the annual build-up of glacier ice.
- C Global warming may cause sea levels to go down.
- D Global warming may cause contraction of deserts.

Answer: B

Question 88

Which of the following books was NOT written by Dr. A. P. J. Abdul Kalam?

- A The Scientific Indian
- B Envisioning an Empowered Nation
- C My Country, My Life
- D Ignited Minds

Answer: C

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Question 89

The value of $\cos(1110^\circ)$ is

- A $\sqrt{3}/2$
- B $1/2$
- C $1/\sqrt{2}$
- D 1

Answer: A

Explanation:

We can write $\cos(1110^\circ) = \cos(6\pi + 30)$

As $\cos(6\pi + x) = +\cos x$ ($\cos \pi = 0$)

$$\cos(6\pi + 30) = +\cos 30 = \frac{\sqrt{3}}{2}$$

Question 90

If $\sin \theta = 2/3$, Find the value of $\sec \theta$ and $\cot \theta$.

- A $\sqrt{5}/2, 2/\sqrt{5}$
- B $2/\sqrt{5}, 3/5$
- C $3\sqrt{5}/5, \sqrt{5}/2$
- D $3/5, 3\sqrt{5}/5$

Answer: C

Explanation:

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

$\sin = \frac{P}{H}$ so, $P = 2, H = 3$ hence $B = \sqrt{5}$

$$\sec \theta = \frac{H}{B} = \frac{3}{\sqrt{5}}$$

$$\cot \theta = \frac{B}{P} = \frac{\sqrt{5}}{2}$$

Question 91

ZIKA virus which damages the brain of the foetus is

- A Mosquito borne
- B Water borne
- C Air borne
- D Food borne

Answer: A

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Question 92

Simplify: $(X^5 \div X^4)^3 \div X$

- A X^3
- B X^2
- C X
- D X^{-1}

Answer: B

Explanation:

$$(X^5 \div X^4)^3 \div X$$

$$X^3 \div X$$

$$X^2$$

Question 93

An article was sold for Rs. 2,400 at a discount of 20%. Find the selling price, if the discount was 25%.

- A Rs. 2,250
- B Rs. 2,000
- C Rs. 1,800
- D Rs. 2,150

Answer: A

Explanation:

$$S.P = Rs\ 2400$$

$$D = 20\%$$

$$M.P = 2400 \times \frac{100}{80} = 3000$$

$$\text{Now discount} = 25\%$$

$$\text{Then } S.P = 3000 \times \frac{75}{100} = Rs2250.$$

Question 94

In a certain code, 134 is AGE and 92706 is INERT. What is 016923?

- A EATING
- B RANGER
- C RATING
- D GINGER

Answer: C

Explanation:

A G E
↓ ↓ ↓
1 3 4

I N E R T
↓ ↓ ↓ ↓ ↓
9 2 7 0 6

0 1 6 9 2 3
↓ ↓ ↓ ↓ ↓ ↓
R A T I N G

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Question 95

The name of the space shuttle, which carried the Indian born Kalpana Chawla into space was

- A Columbia
- B Challenger
- C Atlantis
- D Endeavour

Answer: A

Question 96

Find the similarity in the following:
Carbon, Silicon, Boron, Arsenic

- A All of them are gases.
- B All of them are non-metals.
- C All of them are metals.
- D No similarity.

Answer: B

Explanation:

Carbon, Silicon, Boron, Arsenic all are non metals.

Question 97

A tank can be filled in 30 minutes. There is a leakage which can empty the tank in 90 minutes. Therefore, the tank will be filled in

- A 60 minutes
- B 45 minutes
- C 55 minutes
- D 50 minutes

Answer: B

Explanation:

Tank will be filled in 1 minute = $\frac{1}{30} - \frac{1}{90} = \frac{3-1}{90} = \frac{2}{90} = \frac{1}{45}$

So, tank will be filled in 45 minutes.

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Question 98

Prostate in human body is a

- A Connective tissue
- B Gland
- C Membrane
- D Muscle

Answer: B

Explanation:

A **gland** within the male reproductive system that is located just below the bladder. Chestnut shaped, the **prostate** surrounds the beginning of the urethra, the canal that empties the bladder.

Question 99

A product was sold. for Rs. 4,500 at a profit of 12.5%. What was the amount of profit?

- A Rs. 125
- B Rs. 250
- C Rs. 500
- D Rs. 300

Answer: C

Explanation:

Profit % = 12.5%

S.P = Rs 4500

$$C.P = 4500 \times \frac{100}{112.5} = 4000$$

So, profit = 4500 - 4000 = Rs 500.

Question 100

Find the odd one out.

- A $NaCl$
- B Na_2CO_3
- C H_2O
- D He

Answer: D

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