



RRB 2009 Bhopal

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Instructions

For the following questions answer them individually

Question 1

Who completed the construction of the Kutub Minar ?

- A Kutubuddin Aibak
- B Iltutmish
- C Razia Begum
- D Shahjehan

Answer: B

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Question 2

Who built the Red Fort ?

- A Aurangzeb
- B Haider Ali
- C Shahjehan
- D Akbar

Answer: C

Question 3

The Largest port is

- A Kolkata
- B Mumbai
- C Haldia
- D Kandla

Answer: B

Question 4

Which ruler started the first coins of gold ?

- A Jehangir
- B Iltutmish
- C Shahjehan
- D Babur

Answer: B

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Question 5

Who dethroned the Mauryan dynasty ?

- A Pulkeshin 2
- B Jai Singh
- C Vikramaditya
- D Pushyamitra sunga

Answer: D

Question 6

Dinar is the currency of

- A Russia
- B Bangladesh
- C Germany
- D None of these

Answer: D

Question 7

During whose rule was Guru Arjun Dev hanged ?

- A Aurangzeb
- B Shahjehan
- C Jehangir
- D Farrukhasiar

Answer: C

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Question 8

The tomb of Humayun is located in

- A Delhi
- B Agra
- C Kabul
- D Sikandara

Answer: A

Question 9

Which of the following is called the mad emperor ?

- A Ilutmish
- B Kutubuddin Aibak
- C Muhammad Bin Tughlak
- D Aurangzeb

Answer: C

Question 10

Which of the following is not found in the atmosphere ?

- A Oxygen
- B Hydrogen
- C Carbon dioxide
- D Barium

Answer: D

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Question 11

Which of the following crops does need water during sowing it ?

- A Wheat
- B Barley
- C Paddy
- D Maize

Answer: C

Question 12

Which of the following is called a blood bank ?

- A Spleen
- B Liver
- C Heart
- D None of these

Answer: A

Question 13

Which of the following gases is used to fill the tyres of aeroplanes ?

- A Nitrogen
- B Helium
- C Hydrogen
- D Neon

Answer: A

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Question 14

Which of the following is a vector Quantity ?

- A Displacement
- B Acceleration
- C Speed
- D Displacement and acceleration

Answer: D

Question 15

The boy was (1)/ electrocuted when he (2) / wanders into (3)/ a railway track (4).
Out of the four parts (1),(2),(3) and (4) which is incorrect ?

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

Answer: C

Explanation:

The tense in the sentence should be uniform. The sentence starts with past tense "was electrocuted". So, the latter part should be "wandered"

Question 16

The chemical name of washing soda is

- A Sodium Carbonate
- B Sodium Bicarbonate
- C Sodium Chloride
- D Sodium Sulphate

Answer: A

Question 17

Which ruler died while coming down the ladders ?

- A Babur
- B Akbar
- C Dara Sikoh
- D Humayun

Answer: D

Question 18

The poet Kalidas was contemporary of

- A Ashoka
- B Chandragupta II
- C Alexander the great
- D Akbar

Answer: B

Question 19

During which Mughal emperor the art of painting achieved the Zenith?

- A Aurangzeb
- B Shahjehan
- C Akbar
- D Jehangir

Answer: D

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Question 20

Match the following

List-I List-II

- A: Dynamite i: F.C. Hopkins**
- B: Electrolysis ii: Thomas Edison**
- C: Gramophone iii: Faraday**
- D: Vitamin D iv: Alfred Nobel**

Codes:

A B C D

- A iv iii ii i
- B i ii iii iv
- C iii ii i iv

D iv ii iii i

Answer: A

Question 21

The percentage of which gas is maximum in the atmosphere ?

A Oxygen

B Carbon dioxide

C Argon

D Nitrogen

Answer: D

Question 22

Which Sultan built Alai Darwaza ?

A Balban

B Akbar

C Allaudin Khilji

D Shahjehan

Answer: C

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Question 23

Which of the following is not true ?

A 70% of earth is water

B 90% of earth is water

C 50% of northern hemisphere is water

D 90% of southern hemisphere is water

Answer: B

Question 24

Which region of today is Satvahan Empire related to ?

A Maharashtra

B Andhra Pradesh

C Konkan

D Kalinga

Answer: B

Question 25

Plasmodium causes

- A Malaria
- B Cholera
- C Eye Defect
- D None of these

Answer: A

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Question 26

The number of Islands in Indonesia is

- A 2000
- B 4000
- C 3500
- D 3000

Answer: B

Question 27

Which of the following is not the name of a model of car ?

- A Accord
- B Lancer
- C Accent
- D Express

Answer: D

Question 28

First Muslim invader who came to India in 712, was

- A Mohammad Ghandi
- B Babur
- C Alauddin Ghori
- D Mohammad Bin Kasim

Answer: D

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Question 29

Solder is an alloy of

- A Zinc and Lead
- B Zinc and Copper
- C Tin and Zinc
- D Tin and Lead

Answer: D

Question 30

Which of the following is an inert gas ?

- A Nitrogen
- B Chlorine
- C Argon
- D Hydrogen

Answer: C

Question 31

Demand of good grains is generally ?

- A Flexible
- B Inflexible
- C Unitary Flexible
- D Fully Flexible

Answer: B

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Question 32

Indian Administrative Service was started during the rule of

- A Lord Dalhousie
- B Lord Curzon
- C William Bentick
- D Lord Cornwallis

Answer: A

Question 33

Who started Zabti system ?

- A Akbar
- B Shershah
- C Ashoka
- D Harshavardhana

Answer: B

Question 34

The charminar built by Auli Kutubshahi is situated in

- A Rajasthan
- B Uttar Pradesh
- C Madhya Pradesh
- D Andhra Pradesh

Answer: D

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Question 35

One horned Rhinoceros is found in

- A Assam
- B Madhya Pradesh
- C Rajasthan
- D Uttar Pradesh

Answer: A

Question 36

The Indus Valley people venerated the

- A Bull
- B Cow
- C Garuda
- D Eagle

Answer: D

Question 37

Ordinance issued by Governor is passed by the approval of

- A President
- B State Legislative Council

C State Legislative Assembly

D All the above

Answer: C

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Question 38

Which colour of light has the largest wave length ?

A Yellow

B Red

C Blue

D Green

Answer: B

Question 39

Which of the following is called 'Land of Thousand Snakes' ?

A Finland

B Norway

C Switzerland

D Thailand

Answer: A

Question 40

Tritium is an isotope of

A Oxygen

B Chlorine

C Hydrogen

D None of these

Answer: C

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Question 41

The process of manufacturing of soap is called

A Ion Exchange

B Alphonation

C Saponification

D Steam Distillation

Answer: C

Question 42

Fathometer measures

A Earthquake

B Atmospheric pressure

C Depth of sea

D Temperature

Answer: C

Question 43

National Defence Academy is located in

A Dehradun

B Khadakwasla

C Roorkee

D Chennai

Answer: B

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Question 44

The last ruler of Bahmani Kingdom was

A Kalim-Allah Shah

B Kalimuddin

C Alauddin

D Ruknuddin

Answer: A

Question 45

The Ruins of the Vijayanagar empire exist in

A Bijapur

B Hampi

C Golkonda

D Baroda

Answer: B

Question 46

Chauri-chora incident is related to

- A Quit India movement
- B Non-cooperative movement
- C Civil disobedience movement
- D Partition of Bengal

Answer: B

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Question 47

Which of the following is the oldest dynasty of India ?

- A Vardhan
- B Kushan
- C Maurya
- D Gupta

Answer: C

Question 48

The writer of 'Pahla Girmitia' awarded with Vyas Samman is

- A Nirmal Verma
- B Giriraj Kishore
- C Girilal Thumla
- D India Parthasarathy

Answer: B

Question 49

Lala Lajpat Rai was opposing against - while he become the victim of police atrocities ?

- A Rowlatt Act
- B Morley - Minto Reforms
- C Pitt's India Act
- D Simon Commission

Answer: D

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Question 50

Which type of agriculture in India is called eco - friendly ?

- A Carbonic Cultivation
- B High yield agriculture
- C Shift Cultivation
- D Glass house agriculture

Answer: B

Question 51

Who was the founder of Praja Samjavadi party ?

- A Jay Prakash Narayan
- B Vinoba Bhave
- C M.N. Roy
- D Morarji Desai

Answer: A

Question 52

Which indian nationalist leader saw the war of Germany and Britain as an God-gifted opportunity to take advantage against the colonial rule ?

- A C. Rajagopalachari
- B M.A. Jinnah
- C Subhash Chandra Bose
- D Jawaharlal Nehru

Answer: C

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Question 53

Which is the chief cash crop of 'Tamil Nadu' ?

- A Cotton
- B Coffee
- C Peanut
- D Cashewnut

Answer: B

Question 54

Find the next number in the following number series. 3,5,10,17,29,48

- A 82
- B 72
- C 77
- D 79

Answer: D

Explanation:

The difference between the numbers is 2, 5, 7, 12, 19, etc

These numbers are in a sequence. The sum of the first two numbers forms the third number. The sum of the second and third is the fourth number and so on. So, the next number is 31.

So the next number in the actual sequence is $31 + 48 = 79$.

Question 55

Who gives the advice to the president ?

- A Prime Minister
- B Advocate of the supreme court
- C Advocate
- D Governor

Answer: A

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Question 56

Gold mines in addition to Kollar are located in

- A Dharwar
- B Dawangiri
- C Hutti
- D None of these

Answer: C

Question 57

The first fertilizer plant of India is in

- A Nangal
- B Trombay
- C Sindri
- D Alwaye

Answer: C

Question 58

Under which article two Anglo Indians are nominated in the House of People ?

- A 331
- B 380
- C 370
- D 80

Answer: A

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Question 59

The justice of supreme court retires at the age of

- A 58 Years
- B 60 Years
- C 62 Years
- D 65 Years

Answer: D

Question 60

Total number if nominations made in the Loksabha and the Rajya Sabha by president is

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

Answer: B

Question 61

The only president of India who was elected unopposed was?

- A Rajendra Prasad
- B V.V. Giri
- C N. Sanjiva Reddy
- D S.D. Sharma

Answer: C

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Question 62

The central council of ministers resign after/on

- A Impeachment
- B Losing Majority
- C Advice of the president
- D Death of a leader

Answer: B

Question 63

Who addresses the joint sitting of parliament ?

- A Prime Minister
- B Speaker
- C Deputy Speaker
- D President

Answer: D

Question 64

The tenure of Rajya Sabha member is

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

Answer: D

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Question 65

Which of the following is not a process to achieve Indian Citizenship ?

- A Descent
- B Birth
- C Registration
- D Language

Answer: D

Question 66

Which of the following is not included in the current list ?

- A Criminal Process
- B Divorce
- C Police
- D Labour

Answer: B

Question 67

The final authority with regard to passage of a money bill rests with

- A Lok Sabha
- B Rajya Sabha
- C President
- D Finance Minister

Answer: A

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Question 68

The practice of 'zero hour intervention' in parliament originated in India in ?

- A 1962
- B 1964
- C 1975
- D 1984

Answer: A

Question 69

Who manages the election of panchayats ?

- A District Collector
- B Chief Minister
- C Justice of High Court
- D None of these

Answer: A

Question 70

Who is called Bismark of India ?

- A Sardar Vallabh Bhai Patel
- B Pt. Nehru

C Subhash Chandra Bose

D Khudi Ram Bose

Answer: A

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Question 71

In a certain code language, DIRECT is written as EHSDDS, then PLAYER will be written as

A OKBZFQ

B QKBXFO

C QKBXFQ

D ONBZFQ

Answer: C

Explanation:

The code uses the letter after for the odd letters and the letter before for the even letters in the given word. Hence PLAYER is written as QKBXFQ. Hence option C is the correct answer.

Question 72

If 'orange' means 'butter', 'butter' means 'soap', 'soap' means 'ink', 'ink' means 'honey', and 'honey' means 'orange', then which is used to wash clothes?

A Orange

B Ink

C Honey

D Butter

Answer: B

Explanation:

We use soap to wash clothes. And soap means ink. So, the answer is D.

Question 73

If the following numbers are arranged in descending order; the middle digit of the middle number will be 687, 692, 598, 482, 767

A 6

B 3

C 8

D 5

Answer: C

Explanation:

When arranged in the descending order the numbers are as follows:

767, 692, 687, 598, 482

So, the middle digit of the middle number is 8.

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Question 74

While introducing a man to her husband, a woman says, 'the father of his brother is the only grandson of my grandfather.' How is the woman related to the man ?

- A Sister
- B Daughter
- C Aunty
- D Mother

Answer: C

Explanation:

let the man's father be F. Given, the father of his brother i.e F is the woman's grandfather's grandson => F is the woman's brother.

∴ the woman is the man's aunt.

Question 75

In the English alphabets, which letter comes in the right middle of D and N ?

- A H
- B I
- C G
- D J

Answer: B

Explanation:

D is the 4th letter in the alphabetical series. N is the 14th letter. So, the letter that comes in between the two of them is the 9th letter i.e I.

Question 76

Bees and houseflies are related to the group

- A Insect
- B Worm
- C Animal
- D None of these

Answer: A

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Question 77

Choose the odd one in the following

- A 3
- B 5
- C 7
- D 9

Answer: D

Explanation:

Only 9 is the composite number in the given list. Others are all prime numbers.

Question 78

The first grand slam tennis tournament of the year is

- A Wimbledon Open
- B US Open
- C French Open
- D Australian Open

Answer: D

Question 79

At Kelvin scale, the normal temperature of human body is

- A 290
- B 310
- C 300
- D 30

Answer: B

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Question 80

The monopolistic rule of East India Company was brought under the direct control of British Empire in

- A 1793
- B 1784
- C 1773
- D 1781

Answer: D

Question 81

Which type of economy exists in India ?

- A Socialistic

- B Mixed
- C Capitalist
- D Rural

Answer: B

Question 82

National Stock Exchange is located in

- A Mumbai
- B Kolkata
- C Chennai
- D New Delhi

Answer: A

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Question 83

Which of the following pollutes the air of big cities ?

- A Copper
- B Lead
- C Chromium
- D Copper Oxide

Answer: B

Question 84

What is zero hour ?

- A When the parliament discusses the proposals of the Opposition
- B Time of recess
- C When the parliament discusses important issues
- D None of these

Answer: C

Question 85

The session of parliament is called (minimum) in a year

- A Twice
- B Four time
- C Six times

D Thrice

Answer: A

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Question 86

Golda Meir was the woman Prime minister of

A England

B France

C Sri Lanka

D Israel

Answer: D

Question 87

How many members are nominated by the president for the council of states ?

A 10

B 11

C 15

D 12

Answer: D

Question 88

Magellan Strait is located between/at

A Pacific and South Atlantic Oceans

B The south end of Africa

C China and Japan

D The South end of South America

Answer: A

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Question 89

Who was the founder of the 'Satya Shodhak Samaj' ?

A Raja Ram Mohan Roy

B Sri Narayan Guru

C Jyotirao Phule

D Ishwarchand Vidyasagar

Answer: C

Question 90

Which of the following does not touch the boundary of Myanmar ?

- A Mizoram
- B Manipur
- C Nagaland
- D Tripura

Answer: D

Question 91

Which of the following rivers does not fall into Bay of Bengal ?

- A Mahanandi
- B Tapti
- C Godavari
- D Krishna

Answer: B

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Question 92

Pitty and Organic soils are found in

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

Answer: D

Question 93

The highest peak of South India is

- A Anaimudi
- B Doda Beta
- C Amarkantak
- D Mahendra Giri

Answer: A

Question 94

If the length of a simple pendulum is doubled, its time period will

- A Increase
- B Decrease
- C Remain Constant
- D None of these

Answer: A

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Question 95

Which of the following reacts Sharply with oxygen ?

- A Al
- B Cu
- C Fe
- D Zn

Answer: C

Question 96

For the Implantation of Ovum in the ovaries, the hormone produced is

- A Oxytocin
- B Prolactin
- C Progesterone
- D None of these

Answer: C

Question 97

In human body the ratio of red blood corpuscles and white blood corpuscles is

- A 300 : 1
- B 4000 : 1
- C 500 : 1
- D 600 : 1

Answer: D

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Question 98

One of the digestive juices that lacks enzymes but aids digestion is

- A Bile
- B Succus Entericus
- C Chyme
- D Chyle

Answer: A

Question 99

Which of the following planets has been named after the Roman Goddess of Love?

- A Mars
- B Jupiter
- C Saturn
- D Venus

Answer: D

Question 100

The Swine Flu virus is denoted by

- A H_1N_5
- B N_1H_2
- C H_1N_1
- D H_5N_1

Answer: C

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Question 101

Parliamentary elections in India were not held in

- A 1996
- B 1997
- C 1998
- D 1999

Answer: B

Question 102

Ghumar is a folk dance of

- A Jammu and Kashmir
- B Punjab
- C Himachal Pradesh
- D Rajasthan

Answer: D

Question 103

National Metallurgical Laboratory is located in

- A Jamshedpur
- B Bhilai
- C Durgapur
- D Rourkela

Answer: A

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Question 104

The Language of the Union Territory of Lakshadwip is

- A Tamil
- B Hindi
- C Malayalam
- D Telugu

Answer: C

Question 105

Rajiv Gandhi Khel Ratna Award 2004 was given to

- A P.T. Usha
- B Sania Mirza
- C Rajya Vardhan Rathore
- D Anju Bobby George

Answer: C

Question 106

Echo is heard when the reflecting surface is

- A Of Less Volume
- B Of Large Area

- C Of Less Area
- D Of Large Volume

Answer: B

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Question 107

The substance coated on plastic tape recorder tapes is

- A Zinc Oxide
- B Magnesium Oxide
- C Iron Sulphate
- D Iron Oxide

Answer: D

Question 108

Dronacharya Award is presented to a

- A Sports Coach
- B Chess Champion
- C Hockey Player
- D Cricket Player

Answer: A

Question 109

'A Bond with the Mountains' is a collection of Short Stories by

- A Khushwant Singh
- B Ruskin Bond
- C Graham Greene
- D R.K. Narayan

Answer: B

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Question 110

Which country patented its famous Automatic Rifle Kalashnikov

- A Russia
- B China
- C Afghanistan

D Spain

Answer: A

Question 111

How many sovereign countries are members of the United Nations

A 180

B 193

C 185

D 183

Answer: B

Question 112

Who received one of Pakistan's highest civilian award Nishan-e-Imtiaz for his extraordinary contribution in the field of art ?

A Amitabh Bachchan

B Nasiruddin Shah

C M.F. Hussain

D Dilip Kumar

Answer: D

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Question 113

The book "The Insider" is written by

A P.V. Narasimha Rao

B Shobha De

C Vikram Chandra

D Khushwant Singh

Answer: A

Question 114

Which of the following is not related to vitamin "B" complex group ?

A Thiamin

B Retinol

C Folic Acid

D riboflavin

Answer: B

Question 115

Bhatnagar Award is given for significant contribution in the field of

- A Economics
- B Agriculture
- C Literature
- D Science and Technology

Answer: D

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Question 116

Prambikulam Dam has been an issue of dispute between

- A Karnataka and Kerala
- B Andhra Pradesh and Karnataka
- C Tamil Nadu and Kerala
- D Andhra Pradesh and Tamil Nadu

Answer: C

Question 117

India's maximum tax revenue comes from

- A Corporation tax
- B Income tax
- C Excise tax
- D Customs Duty

Answer: C

Question 118

Thomas cup is associated with

- A Badminton
- B Billiards
- C Lawn Tennis
- D Table Tennis

Answer: A

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Question 119

Who wrote the book, Never Gandhi Not Again ?

- A R.K. Narayan
- B Omesh Saigal
- C Arun Shourie
- D Narasimha Rao

Answer: B

Question 120

The cost price of 18 articles is equal to the selling price of 15 articles. The gain percent is

- A 15%
- B 20%
- C 25%
- D 18%

Answer: B

Explanation:

Let CP and SP be the cost price and selling price respectively of 1 article.

Given, $15SP = 18CP$

$15SP = 15CP + 3CP$

\Rightarrow profit = $3CP$ as $SP = CP + \text{profit}$

$\text{gain\%} = \frac{\text{profit}}{\text{cost price}} \times 100\% = \frac{3CP}{15CP} \times 100\%$

= 20%

Question 121

12 copies of a book were sold for Rs. 1800, thereby gaining the cost price of 3 copies. The cost price of a copy is

- A Rs. 120
- B Rs. 150
- C Rs. 1200
- D Rs. 1500

Answer: A

Explanation:

SP of 12 books = 1800

$SP = CP + \text{Profit}$

Given, Profit of 12 books = $3CP$

$\therefore 1800 = 12CP + 3CP$

$15CP = 1800$

$CP = 120$

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Question 122

A sum of money was invested at a certain rate for 2 years. Had it been invested at 3% higher rate of interest, it would have fetched Rs. 450 more. The sum invested was:

- A Rs. 7500
- B Rs. 600
- C Rs. 5000
- D Rs. 4500

Answer: A

Explanation:

Let x be the sum of money invested at simple interest and r be the rate of interest.

The interest at the end of 2 years = $P \times t \times r / 100 = 2xr$ - (1)

The interest at the end of 2 years if r is increased by 3% = $2x(r + 3)$ - (2)

Given (2) - (1) = 450

$$\Rightarrow 6x = 450$$

$$\therefore x = 7500$$

Question 123

A sum of money put out at compound interest amounts to Rs. 16900 in 2 years and to Rs. 17576 in 3 years. Find the rate of interest per annum.

- A 4%
- B 5%
- C 10%
- D 6%

Answer: A

Explanation:

Let x be the principal amount and r be the compound interest.

The amount after first year = $x + xr$

the amount after second year = $(x + xr) + (xr + xr^2) = x + 2xr + xr^2 = x(1 + r)^2 = 16900$ - (1)

Similarly, the amount after third year = $x(1 + r)^3 = 17576$ - (2)

dividing 2 by 1 we get,

$$1 + r = 1.04$$

$$r = .04$$

Thus the interest is 4%.

Question 124

On what sum of money will the for 3 years at 5% per annum to Rs. 630.50.

- A Rs. 1200

- B Rs. 1261
- C Rs. 4000
- D Rs. 3000

Answer: C

Explanation:

$$P(1 + .05)^3 - P = 630.5$$

Solving for P, we get P = 4000

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Question 125

A sum of Rs. 625 is made up of 80 currency notes which are of either Rs. 10 or Rs. 5 denomination. The number of Rs. 10 notes are

- A 35
- B 45
- C 40
- D 30

Answer: B

Explanation:

Let there be x 10 rupee notes in the sum. The number of 5 rupee notes = 80 - x

$$\text{The sum} = 10x + (80 - x) * 5 = 625$$

So, x = 45

Question 126

A certain job was assigned to a group of men to do in 20 days. But 12 men did not turn up for the job and the remaining men did the job in 32 days. The original number of men in the group was

- A 32
- B 34
- C 36
- D 40

Answer: A

Explanation:

Let there be x men initially. They were supposed to complete the work in 20 days.

When 12 men didn't show up the work was done in 32 days

So, x- 12 men did the work in 32 days

But x-12 men were supposed to take $20x / (x-12)$ days

$$\text{So, } 20x / (x-12) = 32$$

so,

$$x = 32$$

Question 127

A certain number of men can do a work in 60 days. If there were 8 men more it could be finished in 10 days less. How many men were there in the beginning ?

- A 40
- B 35
- C 45
- D 50

Answer: A

Explanation:

Let there be m men originally to work in 60 days

If the men were $m + 8$, the work would be completed in 50 days.

$$(m+8)/m = 60/50$$

$$\text{So, } m = 40$$

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Question 128

12 men and 18 boys working $7\frac{1}{2}$ hours a day can do a certain work in 60 days. If one man works equal to 2 boys. Then the number of boys required to help 21 men to do twice the work in 50 days, working 9 hours a day, will be

- A 30
- B 42
- C 48
- D 90

Answer: B

Explanation:

2 boys = 1 man

So, 21 men can do work W in 60 days working 7.5 hours per day.

to do $2W$, 42 men are needed.

To do the job in 50 days, $60 \times 42 / 50$ men are needed.

To do the job working 9 hours a day, $7.5/9 \times 60 \times 42/50$ men are needed

$$= 42 \text{ men}$$

We only have 21 men so, we get 42 extra boys to get the work needed for the 21 extra men.

Question 129

The average expenditure of a man for the first five months is Rs. 1200 and for the next seven months is Rs. 1300. Find his monthly average income if he saves Rs. 2900 during the year ?

- A Rs. 1500
- B Rs. 1475
- C RS. 1450

D Rs. 1425

Answer: A

Explanation:

Let his monthly salary be x rupees.

$$\text{So, } 5(x - 1200) + 7(x - 1300) = 2900$$

$$12x - 6000 - 9100 = 2900$$

$$\text{So, } x = 18000/12 = 1500$$

Question 130

The average temperature for Monday, Tuesday and Wednesday was 40°C . The average for Tuesday, Wednesday and Thursday was 41°C . If on Thursday temperature is 45°C , What was it on Monday ?

A 40°C

B 41°C

C 42°C

D 43.5°C

Answer: C

Explanation:

Total temperature for Monday, Tuesday, Wednesday and Thursday = $40 \times 3 + 45 = 165 \text{ C}$

Total for Tuesday, Wednesday and Thursday = $41 \times 3 = 123 \text{ C}$

So,

Temperature for Monday = $165 - 123 = 42 \text{ C}$

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Question 131

Of the three numbers, second is twice the first and is also thrice the third. If the average of the three numbers is 44, the largest number is

A 24

B 72

C 36

D 108

Answer: B

Explanation:

Let the first number be $3x$. Second number is $6x$. Third number is $2x$.

$$\text{So average} = (2x + 3x + 6x)/3 = 11x/3$$

$$\text{But } 11x/3 = 44$$

$$\text{So, } x = 12$$

$$6x = 72$$

Question 132

Of the three numbers whose average is 60, the first is one fourth of the sum of the others, The first number is

- A 30
- B 36
- C 42
- D 45

Answer: B

Explanation:

The average of the three numbers is 60

The first number is one fourths of the sum of the others.

$$\text{or } 4p = q + r$$

$$\frac{p+q+r}{3} = 60$$

$$\text{So, } 5p/3 = 60$$

$$p = 180/5 = 36$$

Question 133

The average age of a family of 5 members is 24 years. If the age of youngest member be 6 years, find the average age of the family at the birth of the youngest member.

- A 232 Years
- B 20 Years
- C 222 Years
- D 18 Years

Answer: C

Explanation:

The total age of the 5 members = 120 years.

Age of the youngest member is 6 years.

Total age of the rest of the group = 114 years.

$$\text{Average age} = 114/4$$

$$\text{Average age 6 years ago} = 114/4 - 6 = 28.5 - 6 = 22.5 \text{ years.}$$

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Question 134

9 men went a hotel. 8 of them spent Rs.30 each over their meals and the 9th spent Rs. 20 more than the average expenditure of all the nine. The total money spent by them is:

- A Rs. 292.50
- B Rs. 272.50
- C Rs. 312.50
- D Rs. 325.50

Answer: A

Explanation:

Let the ninth person's expenses be x rupees.

Total expense by the group = $x + 240$

Average = $(x + 240)/9$

But the average is 20 less than x

$$(x + 240)/9 + 20 = x$$

$$x + 240 + 180 = 9x$$

$$8x = 420$$

$$x = 52.5$$

Question 135

In a cricket team of eleven players, one player weighing 42 kg. is injured and his place is taken by another player. If the average weight of the team is increased by 100 grams as a result of this, then the weight of the new player is:

- A 43.1 kg
- B 43.01 kg
- C 43.50 kg
- D 42.9 kg

Answer: A

Explanation:

Let the weight of the new player be x kgs.

Total weight as a result of his inclusion = $TW - 42 + x$

Average weight = $(TW - 42 + x)/11$

But average weight before = $TW/11$

$$(TW - 42 + x)/11 - TW/11 = .1$$

$$x - 42 = 1.1$$

So, $x = 43.1$ kgs

Question 136

The average age of 8 persons in a committee is increased by 2 years when two men whose ages are 35 years and 45 years are replaced by two women. The average age of two women is (in years)

- A 40
- B 42
- C 48
- D 45

Answer: C

Explanation:

Let the average age of the women be A years.

Total of their ages = $2A$

Total of the eight persons = ET

When replaced $(ET - 80 + 2A)/8 = ET/8 + 2$

$$2A - 80 = 16$$

$$A = 96/2 = 48$$

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Question 137

One-fourth of a certain journey was covered at an average speed of 45 km/hour, one third at the speed of 48 km/hour and the remaining journey at the speed of 50 km/hour. The average speed of the whole journey in km/hour is:

- A 54
- B 51
- C 48
- D 46

Answer: C

Explanation:

Let the total distance be 1200 kms

Time taken for first one fourth = $300/45 = 20/3 = 6.67$

Next one third time = $400/48 = 25/3 = 8.33$

Remaining = $500/50 = 10$

Average speed = total distance / total time = $1200/25 = 48$ kmph

Question 138

Visitors to a show were charged Rs. 150.00 each of the first day, Rs. 75.00 on the second day and Rs. 25.00 on the third day and the total attendance on the three days were in the ratio 2:5:13. The average change per person for the whole show is:

- A Rs. 75.00
- B Rs.60.00
- C Rs. 50.00
- D Rs. 55.00

Answer: C

Explanation:

Let the total visitors be 20. Total revenue = $2 \times 150 + 5 \times 75 + 13 \times 25 = 300 + 375 + 325$
= 1000

Average ticket price = Total revenue / total visitors = $1000/20 = 50$

Question 139

Preeti has a son, named Arun. Ram is Preeti's brother. Neeta too has a daughter named Reema. Neeta is Ram's sister. What is Arun's relationship to Reema ?

- A Brother
- B Nephew
- C Cousin

D Uncle

Answer: C

Explanation:

Ram is Preeti's brother, and Neeta is Ram's sister which means Preeti and Neeta are sisters. Therefore, their children Arun and Reema will be cousins.

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Question 140

Pointing to a woman a man said, "Her mother is the only daughter of my mother". How is the man related to the woman ?

A Father

B Brother

C Paternal Uncle

D Maternal Uncle

Answer: D

Explanation:

From the statement, it is clear that the woman's mother is the man's sister. This makes him the woman's maternal uncle.

Question 141

A is the father of X. B is the mother of Y. X and Z are brothers and Y is the Sister of X and Z. Which of the following statements is not true?

A B is the wife of A

B B has one daughter

C Y is the son of A

D X is the son of B

Answer: C

Explanation:

Given, Y is the sister of X and Z and A is the father of Z. Thus Y is the daughter of A. Therefore, option C is wrong.

Question 142

X told Y, "it is true that I am your real brother, but you are not my sister". How would Y be possibly related to X ?

A Cousin

B Friend

C Brother

D Cannot be determined

Answer: C

Explanation:

Since X has told he is the real brother of Y, then Y is definitely the sibling of X. Since X has mentioned Y is not his sister, the only alternate is Y is X's brother.

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Question 143

From the given choices, select the one which can be formed by using the letters of the given word : TRANSFORMATION

- A TRANSACTION
- B TRANSFER
- C INFORMANT
- D INFORMER

Answer: C

Explanation:

The word INFORMANT is entirely made up of letters of the word TRANSFORMATION. TRANSACTION has the letter C, which is not present in TRANSFORMATION. Similarly, TRANSFER and INFORMER has the letter E, which is not present in the given word.

Question 144

From the given choices, select the one which can be formed by using the letters of the given word : MEASUREMENT

- A MASTER
- B SUMMIT
- C MANTLE
- D ASSURE

Answer: A

Explanation:

The word MASTER only contains letters that are also present in MEASUREMENT. SUMMIT has the letter I which is not present in MEASUREMENT. Similarly, MANTLE has the letter L, and ASSURE has an extra S that is not present in MEASUREMENT.

Question 145

A pipe of diameter 'd' can drain a certain water tank in 40 minutes. The time taken by a pipe of diameter '2d' for doing the same job is :

- A 50 Min
- B 10 Min
- C 20 Min
- D 80 Min

Answer: B

Explanation:

The time of flow of water through the pipes is inversely proportional to the area of the pipes.

The ratio of area of the two pipes are

$$\frac{\pi \times (2D)^2}{\pi \times (D)^2} = 4:1$$

Thus, the time taken by the larger pipe will be one-fourth of the smaller pipe.

Hence, the time taken by the larger pipe is $=40/4=10$.

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Instructions

In each of the following questions, find the next term to fill the blank space.

Question 146

20,32,45,59,74, ?

- A 95
- B 90
- C 85
- D 79

Answer: B

Explanation:

The sequence can be rewritten as:

20, $20+12=32$, $32+13=45$, $45+14=59$, $59+15=74$ and $74+16=90$.

Therefore, the answer is B.

Question 147

210,195,175,150,120, ?

- A 75
- B 80
- C 85
- D 90

Answer: C

Explanation:

The sequence can be rewritten as:

210, $210-15=195$, $195-20=175$, $175-25=150$, $150-30=120$

Similarly,

$120-35=85$

Question 148

3,5,10,12,24,26, ?

- A 52
- B 30
- C 28
- D 48

Answer: A

Explanation:

The sequence given is an alternating sequence and alternates between the addition of two and multiplication of two.

The sequence is $3, 3+2=5, 5 \times 2=10, 10+2=12, 12 \times 2=24, 24+2=26$ and $26 \times 2=52$ which is the answer.

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Question 149

3,8,15,24,35, ?

- A 42
- B 48
- C 49
- D 53

Answer: B

Explanation:

The sequence can be rewritten as:

$3, 3+5=8, 8+7=15, 15+9=24, 24+11=35$

Likewise, the next in sequence is, $35 + 13=48$

Question 150

5,16,49,148, ?

- A 440
- B 441
- C 443
- D 445

Answer: D

Explanation:

The sequence can be rewritten as:

$5, 5 \times 3 + 1, 16 \times 3 + 1, 49 \times 3 + 1$

Thus, the next term of the sequence is $148 \times 3 + 1 = 445$

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