



RRB JE 25th May 2019 Shift-1

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in any retrieval system of any nature without the permission of cracku.in, application for which shall be made to support@cracku.in

RRB JE 25th May 2019 Shift-1

Instructions

For the following questions answer them individually

Question 1

What is the loss percent incurred when 2 chocolates got at a rupee are sold 4 for a rupee?

- A 50%
- B 100%
- C 75%
- D 25%

Answer: A

Explanation:

chocolates got at 2 for a rupee are sold at 4 for a rupee means

C P of a chocolate is 50 paise per chocolate

S P of a chocolate is 25 paise per chocolate

$$\begin{aligned}\text{loss \%} &= \frac{CP-SP}{CP} \times 100 \\ &= \frac{25}{50} \times 100 \\ &= 50\%\end{aligned}$$

RRB NTPC Free Mock Tests

Question 2

If $(x - 1)$ and $(x + 3)$ are the factors of $x^2 + ax + b$, then find the values of 'a' and 'b' respectively.

- A 2, 3
- B -2, -3
- C -2, 3
- D 2, -3

Answer: D

Question 3

The ratio of the time taken to row a certain distance upstream to the time taken to go downstream is 4 : 1. What is the ratio of the speed along stream to that upstream?

- A 5 : 3
- B 3 : 5
- C 4 : 1
- D 1 : 4

Answer: C

Question 4

Who was the first Indian to go into the space?

- A Rakesh Sharma
- B Kalpana Chawla
- C Ravish Malhotra
- D Sunita Williams

Answer: A

RRB JE Previous Papers (Download Pdf)

Question 5

Which country awarded Shri.Ram Nath Kovind with the highest civilian award the "Grand Order of the King of Tomislav"?

- A France
- B Croatia
- C England
- D Germany

Answer: B

Question 6

Express $0.1\bar{2}5$ in rational form of Number?

- A $\frac{113}{990}$
- B $\frac{125}{999}$
- C $\frac{100}{999}$
- D $\frac{119}{993}$

Answer: B

Question 7

Find the ODD one out from the given options.

- A 290
- B 324
- C 144
- D 100

Answer: A

Explanation:

All are the squares of the number

$$324 = 18^2$$

$$144 = 12^2$$

$$100 = 10^2$$

except 290

RRB JE Free Mock Test

Question 8

Two trains 200 m and 150 m long are running on parallel rails at the rates of 40 km/h and 45 km/h respectively. In how much time will they cross each other if they are running in the same direction?

- A 72 seconds
- B 132 seconds
- C 192 seconds
- D 252 seconds

Answer: D

Explanation:

Two trains 200 m and 150 m long are running on parallel rails

distance = length of the two trains = $200\text{ m} + 150\text{ m} = 350\text{ m}$

Relative speed by two trains running in the same direction = $(45-40)\text{ km/h} = 5\text{ km/h}$

time taken for crossing = $\frac{\text{distance}}{\text{speed}}$

we have to change the units of speed by multiplying $\frac{5}{18}$

$$= \frac{350\text{ m}}{5 \times \frac{5}{18}}$$

$$= 252\text{ seconds}$$

Question 9

Complete the series. 2, 3, 6, 15, 42, (...)

- A 94
- B 48
- C 62
- D 123

Answer: D

Question 10

The governor of a state of India is appointed for a term of?

- A Five years
- B Three years
- C Six years
- D Two years

Answer: A

Daily Free RRB Online Test

Question 11

Which of the following sports originated in India?

- A Kabaddi
- B Tennis
- C Cricket
- D Football

Answer: A

Question 12

Kinetic energy of gas molecules is directly proportional to?

- A Pressure
- B Temperature
- C Atmospheric pressure
- D Both temperature and pressure

Answer: B

Question 13

Who among the following was awarded with the Padma Shri in 2019?:

- A Gautam Gambhir
- B Budhaditya Mukherjee
- C John Chambers
- D Bachendri Pal

Answer: A

RRB Group-D Previous Papers

Question 14

If 31 December 2005 was a Saturday, then what day of the week will 31 December 2009 be

- A Saturday
- B Sunday
- C Friday
- D Thursday

Answer: D

Question 15

When 8 times of a number is increased by 4, the result is the smallest 3 digit number. What is the number?

- A 8
- B 12
- C 15
- D 10

Answer: B

Explanation:

let the number be N

when N = 8

$$8N + 4$$

ATQ

$8N + 4$ is a smallest 3 digit number

lets check the option

when N = 8

$$8N + 4 = 68$$

when N = 12

$$8N + 4 = 100$$

when N = 15

$$8N + 4 = 124$$

when N = 10

$$8N + 4 = 84$$

So, N = 12

Question 16

Which word will best complete the relationship given below? Asphalt : Road :: Brick : ?

- A Cloth
- B Wall
- C Fabric
- D Prism

Answer: B

Explanation:

Asphalt : Road :: Brick : ?

Asphalt is used to make the road

similarly

Brick is used to make Wall

Question 17

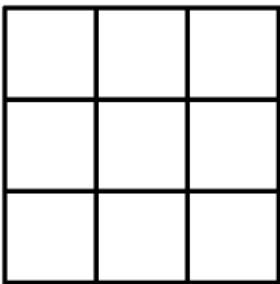
Natural source of vitamin C is?

- A Guava
- B Spinach
- C All of the options
- D Apple

Answer: C

Question 18

How many squares are there in the given figure?



- A 11
- B 14
- C 12
- D 10

Answer: B

Question 19

If the interest is compounded half-yearly, find the Compound Interest on the sum of Rs.18500 at the rate of 40% per annum for 18 months.

- A Rs.16000
- B Rs.16280
- C Rs.13468
- D Rs.15469

Answer: C

Explanation:

$$\begin{aligned} \text{compound interest + P} &= P\left(1 + \frac{R}{100}\right)^n \\ &= 18500\left(1 + \frac{20}{100}\right)^3 \end{aligned}$$

In Time, we can write 18 months as $1\frac{1}{2}$ years which can be written as 3 half years.

compound interest + P = 31968

So, Compound Interest will be,

compound interest = 31968 - 18500

So, Compound Interest is Rs.13468.

20 RRB NTPC Mocks-Tests Rs.149

Question 20

Bacilli are bacteria which are?

- A Comma-shaped
- B Spherical
- C Spiral
- D Rod-shaped

Answer: D

Question 21

The isotope deuterium of hydrogen has?

- A One proton and one neutron
- B One neutron and two protons
- C No neutrons and one proton
- D One electron and two neutrons

Answer: A

Question 22

On which of the following river banks is the city of Agra located?

- A Tapti
- B Yamuna
- C Ganga
- D Sabarmati

Answer: B

10 RRB JE Mocks-Tests Rs.117

Question 23

Ram is facing towards east and Ravi is facing Ram and walking towards him. Ravi takes a left turn. Which direction is Ravi facing now?

- A East

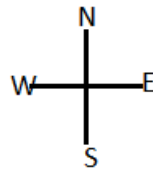
B South west

C South east

D South

Answer: D

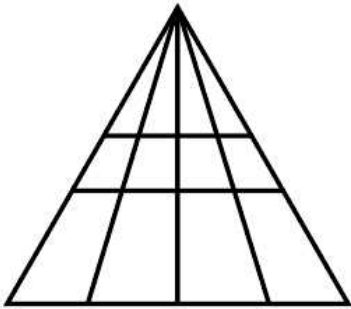
Explanation:



south direction

Question 24

How many triangles are there in the given figure?



A 21

B 26

C 30

D 34

Answer: C

Question 25

In a certain code, 'MEDICAL' is written as 'MEIDCAL'. How would 'POLICE' be written in that code?

- A ILCEPO
- B POCEIL
- C PCELIO
- D POILCE

Answer: D

Explanation:

'MEDICAL' is written as 'MEIDCAL'

Here only the 3rd and 4th letters are interchanged which are D and I.

similarly

'POLICE' here we should interchange the 3rd and 4th letter LI =IL = 'POILCE'

RRB General Science Notes (Download Pdf)

Question 26

How are detergents called?

- A Hard soaps
- B Soapless soaps
- C Carbolic soaps
- D Soft soaps

Answer: B

Question 27

Water holding capacity is the highest in?

- A Loamy soil
- B Sandy soil
- C Clayey soil
- D Silty soil

Answer: C

Question 28

_____ is a sexually transmitted killer disease.

- A AIDS
- B Typhoid
- C Jaundice
- D Malaria

Answer: A

Question 29

Michael Phelps of US is famous for?

- A Swimming
- B High jump
- C Pole vault
- D Horse riding

Answer: A

Question 30

Simplify $3 + \frac{1^1 \cdot 1^1}{1+2+4}$?

- A $\frac{1}{12}$
- B $\frac{3}{13}$
- C $\frac{13}{49}$
- D $\frac{48}{13}$

Answer: D

Explanation:

$$3 + \frac{1^1 \cdot 1^1}{1+2+4}$$

$$3 + \frac{1 \cdot 1}{1+4}$$

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

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

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

$$\frac{15}{5} + \frac{1}{5}$$

$$\frac{16}{5}$$

Question 31

If '+' means '÷', '÷' means 'x', 'x' means '-' and '÷' means '+', then $(5 - 8 \times 6 \div 11) + 9 = ?$

- A 5
- B 20
- C 15
- D 12

Answer: A

Explanation:

'+' means '÷', '-' means 'x', 'x' means '-' and '÷' means '+', then $(5 - 8 \times 6 \div 11) + 9 = ?$

$$(5 - 8 \times 6 \div 11) + 9$$

$$(5 \times 8 - 6 + 11) \div 9$$

appl bodmass rule

$$(40 - 6 + 11) \div 9$$

$$45 \div 9 = 5$$

RRB NTPC Previous Papers (Download PDF)

Question 32

Which of the following is a leguminous plant?

- A Potato
- B Pea
- C Cabbage
- D Tomato

Answer: B

Question 33

If in a certain code, RAT = 40, CHAT = 33, then RETURN = ?

- A 99
- B 97
- C 84
- D 88

Answer: B

Question 34

Which of the following is a source for quinine?

- A Teak
- B Cinchona
- C Neem
- D Bamboo

Answer: B

Join Competitive Exam Updates Telegram Group

Question 35

The product of two co-prime numbers is 117. Find their HCF.

- A 117
- B 1
- C 13
- D 7

Answer: B

Explanation:

Two **numbers** are **coprime** if their highest common factor is 1

Given ,The product of two co-prime numbers is 117

so the hcf should be 1

Question 36

Find the HCF of two consecutive even integers.

- A 1
- B 2
- C -1
- D 0

Answer: B

Explanation:

let take 4,6 a two consecutive even integers

$$6 = 2 \times 3$$

$$4 = 2 \times 2$$

select the highest common factor = 2

similarly take another no

let take 12,14 a two consecutive even integers

$$12 = 2 \times 2 \times 3$$

$$14 = 2 \times 7$$

select the highest common factor = 2

so the hcf is 2 only

Question 37

Simplify: $\cos 5^\circ + \cos 24^\circ + \cos 175^\circ + \cos 204^\circ + \cos 300^\circ$

- A $\frac{1}{12}$
- B 0
- C $\frac{1}{2}$
- D 1

Answer: C

RRB NTPC Free Mock Tests

Question 38

The amount of air inspired and expired during normal respiration is known as?

- A Vital capacity
- B Tidal volume
- C Minute volume
- D Residual volume

Answer: B

Question 39

What happens to the force of gravitation between two objects when the mass of one object is doubled?

- A The force of gravitation is tripled
- B The force of gravitation is halved
- C The force of gravitation is four times
- D The force of gravitation is doubled

Answer: D

Question 40

If the radius of curvature of a convex mirror is 24 cm, what is its focal length?

- A 12 cm
- B 14 cm
- C 24 cm
- D 48 cm

Answer: A

RRB JE Previous Papers (Download Pdf)

Question 41

If $53 * 13 = 33$, $39 * 13 = 26$ and $74 * 26 = 50$, then what will be $37 * 21$?

- A 43
- B 37
- C 24
- D 29

Answer: D

Explanation:

$$53 \times 13 = 33$$

$$53. + 13 = \frac{66}{2}$$

$$, 39 \times 13 = 26$$

$$39. + 13 = \frac{42}{2} = 26$$

$$74 \times 26 = 50,$$

$$74. + 26 = \frac{100}{2} =$$

$$37 \times 21$$

$$37. + 21 = \frac{58}{2} = 29$$

Question 42

The sum of two numbers is 22. Five times of one number is equal to 6 times the other. Find the larger of the two numbers.

A 12

B 16

C 15

D 10

Answer: A

Explanation:

The sum of two numbers is 22. Five times of one number is equal to 6 times the other. Find the larger of the two numbers.

let the no. be P, Q

$$P + Q = 22 \text{ (1)}$$

ATQ

$$5P = 6Q \text{ (2)}$$

put (1) in (2)

$$5(22-Q) = 6Q$$

$$Q = 10$$

so

$$P = 12$$

Question 43

Twinkling of stars at night happens due to?

A Scattering of light

B Reflection of light

C Dispersion of light

D Atmospheric refraction

Answer: D

RRB JE Free Mock Test

Question 44

An article is sold at a certain price. Had it been sold at 60% of this price, there would have been a loss of 35%. What is the percentage profit now?

A $16\frac{2}{3}$

B $12\frac{1}{2}$

C 15

D $8\frac{2}{3}$

Answer: D

Explanation:

let original s.p of article be 'Rs 100 , c.p = x

new s.p = 60% of 100 = Rs 60

cp - loss = sp

loss is 35%

$$x - 35x = 60$$

$$= 0.65 x = 60$$

$$x = \frac{6000}{65}$$

$$\text{profit} = 100 - \frac{6000}{65} = \frac{500}{65}$$

$$\text{profit \%} = \frac{\frac{500}{65}}{\frac{6000}{65}} \times 100$$

$$= 8.33\%$$

Question 45

Find the ODD one out from the given options.

A HTI

B GQI

C DRM

D ETN

Answer: A

Question 46

Barium chloride on reacting with ammonium sulphate forms barium sulphate and ammonium chloride. Which of the following CORRECTLY represents the type of reaction involved?

A Combination reaction

B Combustion reaction

- C Oxidation reaction
- D Precipitation reaction

Answer: D

Daily Free RRB Online Test

Question 47

The sum of the ages of two cousins is 35. Ten years ago, the ratio of their ages was 2 : 1. What are their present ages?

- A 30, 5
- B 20, 15
- C 28, 7
- D 10, 25

Answer: B

Explanation:

Sum of the $C_1 + C_2 = 35$

10 years ago

$$C_1 - 10 + C_2 - 10 = 2X + X$$

$$35 - 20 = 3X$$

$$x = 5$$

age before 10 years is $2X$, $X = 10, 5$

present age is $= 10 + 10 = 20$

$$= 5 + 10 = 15$$

Question 48

What is the chemical name of limewater?

- A Sodium hydroxide
- B Calcium hydroxide
- C Ammonium hydroxide
- D Magnesium hydroxide

Answer: B

Question 49

In a period, elements are arranged in the order of?

- A Decreasing charges in the nucleus
- B Constant charges in the nucleus
- C Equal charges in the nucleus
- D Increasing charges in the nucleus

Answer: D

RRB Group-D Previous Papers

Question 50

Why are the tyres of the cars, trucks and bulldozers treaded?

- A To increase the speed of the vehicle
- B The treads of the tyres are meant to add beauty to its design
- C To decrease the friction
- D To increase friction and to give a better grip to them on the road

Answer: D

Question 51

Which of the following elements is represented by the symbol "Si"?

- A Silicon
- B Sodium
- C Silver
- D Sulphur

Answer: A

Question 52

Which word will best complete the relationship given below? Oil : Seed :: Metal : ?

- A Paper
- B Leather
- C Ore
- D Brick

Answer: C

RRB Free Videos (You Tube Channel)

Question 53

Which technique is used to determine the depth of the sea, locate the underwater hills, valleys, submarines, icebergs etc.?

- A SONAR
- B Sound absorption
- C Infrasound
- D MRI

Answer: A

Question 54

Find the missing number in the following series.

1, 1, 2, (...), 24, 120, 720

- A 8
- B 3
- C 6
- D 2

Answer: C

Explanation:

1, 1, 2, (...), 24, 120, 720

1

$$1 \times 1 = 1$$

$$1 \times 2 = 2$$

$$2 \times 3 = 6$$

$$6 \times 4 = 24$$

$$24 \times 5 = 120$$

and so on

Question 55

Find the selling price of an article, if a shopkeeper allows two successive discounts of 5% each on the marked price of Rs.80.

- A Rs.72
- B Rs.73
- C Rs.72.20
- D Rs.70.10

Answer: C

Explanation:

a shopkeeper allows two successive discounts of 5% each on the marked price of Rs.80.

S.P. = 95% of 95% of Rs. 80

$$=Rs.\left(\frac{95}{100} \times \frac{95}{100} \times 80\right) = Rs.72.20$$

20 RRB NTPC Mocks-Tests Rs.149

Question 56

Find the selling price of an article, if a shopkeeper allows two successive discounts of 5% each on the marked price of Rs.80.

- A Rs.72
- B Rs.73
- C Rs.72.20

D Rs.70.10

Answer: B

Question 57

Which of these is a fossil fuel?

A Alcohol

B Biogas

C Wood

D Coal

Answer: D

Question 58

A cube has numerically equal surface area and volume. Find the volume of the cube.

A 276 cubic units

B 162 cubic units

C 512 cubic units

D 216 cubic units

Answer: D

Explanation:

Given that

cube has numerically equal surface area and volume

$$6 \times \text{side}^2 = \text{side}^3$$

side = 6 cubic units

so volume = side^3

$$6^3 = 216 \text{ cubic units}$$

10 RRB JE Mocks-Tests Rs.117

Question 59

A 110 m long train crosses a pole in 12 seconds. What is the speed of the train in km/h?

A 49 km/h

B 27 km/h

C 30 km/h

D 33 km/h

Answer: D

Explanation:

As we know that

$$\text{Speed} = \frac{\text{distance}}{\text{time}}$$

Given

Let train length = 110m

$$\text{Speed} = \frac{110}{12}$$

Now change into km/ hr

$$= \frac{110}{12} \times \frac{18}{5} = 33 \text{ km/hr}$$

Question 60

Find the group of wrong alphabets in the following series. MA, WO, OE, SI, YM

- A SI
- B OE
- C WO
- D YM

Answer: C

Question 61

Chandigarh is the capital of which of the following states?

- A Himachal Pradesh
- B Both Punjab and Haryana
- C Punjab
- D Haryana

Answer: B

RRB General Science Notes (Download Pdf)

Question 62

Which of the following statements about the modern periodic table is CORRECT?

- A It has 18 vertical columns known as groups
- B It has 7 horizontal rows known as groups
- C It has 7 vertical columns known as periods
- D It has 18 horizontal rows known as period

Answer: A

Question 63

One day in the evening, an eagle was flying towards sun and turned left. Again it took left turn. Which direction was the eagle flying now?

- A South
- B South west

- C East
- D South east

Answer: C

Question 64

Thillana is one of the presentation styles of which dance form?

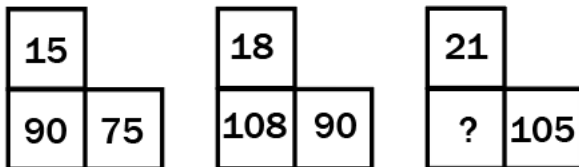
- A Bharatanatyam
- B Kuchipudi
- C Odissi
- D Kathak

Answer: A

RRB GK Material (Download Pdf)

Question 65

Choose the alternative that best replaces the question mark in the given figure?



- A 136
- B 126
- C 84
- D 108

Answer: B

Explanation:

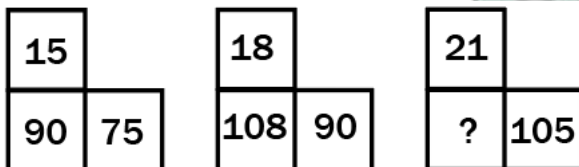


fig (1) The addition of 15 and 75 is equal to 90

similarly

fig (2) The addition of 18 and 90 is equal to 108

fig (3) The addition of 21 and 105 is equal to 126

Question 66

In this question, three statements are given followed by four conclusions. Choose the conclusion(s) which best fit(s) logically.

Statements:

- 1) All gold are platinum.
- 2) Some platinum are silver.
- 3) All silver are diamonds.

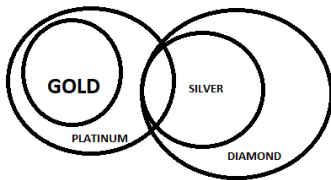
Conclusions:

- I. Some diamonds are platinum.
- II. Some diamonds are gold.
- III. Some silver are gold.
- IV. Some platinum are diamonds.

- A Only conclusions I and IV follow
- B Only conclusions I and II follow
- C Only conclusion III follows
- D Only conclusions I and III follow

Answer: A

Explanation:



- I. Some diamonds are platinum.

yes, some Diamonds are Platinum as shown in figure

- II. Some diamonds are gold.

There is no connection between diamonds and gold

- III. Some silver are gold.

There is no connection between silver and gold

- IV. Some platinum are diamonds.

yes, some platinum are diamond as shown in figure

so, Only conclusions I and IV follow

Question 67

To hear a distinct echo, what is the minimum time interval required between the original sound and the echo?

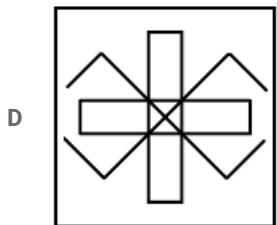
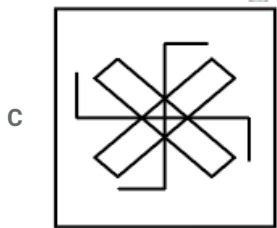
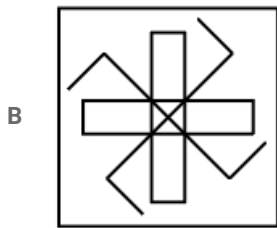
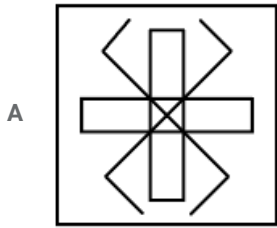
- A 0.1 second
- B 0.2 second
- C 0.4 second
- D 0.01 second

Answer: A

RRB NTPC Previous Papers (Download PDF)

Question 68

Find the odd one out from the given options?



Answer: C

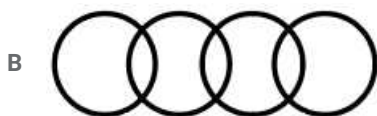
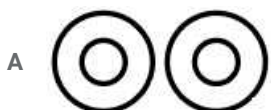
Explanation:

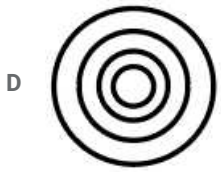
In all figure plus '+' sign is there but in option 3 cross 'x' sign is there so option 3 is odd

Question 69

choose the figure that best represents the relationship among the classes given below?

Wheat, Grains, Onion, Maize





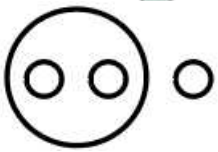
Answer: C

Explanation:

Wheat, Grains, Onion, Maize

Wheat and Maize comes under Grains

Onion comes under Vegetable which is different from grains



the two smaller circle inside the big circle is Wheat and Maize and big circle is Grains and the small circle outside is onion

Question 70

Which of these does NOT have an optical lens?

- A Periscope
- B Stethoscope
- C Telescope
- D Microscope

Answer: B

Join Competitive Exam Updates Telegram Group

Question 71

Which gas is typically produced when metal reacts with acids?

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

Answer: C

Question 72

If $\cot\theta = \frac{a}{b}$ then find the value of $\frac{\cos\theta + \sin\theta}{\cos\theta - \sin\theta}$

- A $\frac{a-b}{a+b}$

B $\frac{a^2}{b^2}$

C $\frac{b}{a}$

D $\frac{a}{b}$

Answer: A

Question 73

Read the following information carefully and answer the question given below.

Eight captains of different cricket teams—Australia, New Zealand, India, Pakistan, Sri Lanka, England, West Indies and South Africa are sitting around a circular table and are facing the centre, but not necessarily in the same order. Indian captain sits third to the left of the Sri Lankan captain. Only two people sit between the Australian captain and West Indies captain. Neither the Australian captain nor West Indies captain is an immediate neighbour of the Indian captain. The captain of South Africa sits second to the right of the England captain. England captain is not an immediate neighbour of the Indian captain. The Australian captain sits third to the left of the Indian captain. Captains of Pakistan and New Zealand are not immediate neighbours. Pakistan captain sits third to the left of the England captain.

Which of the following captains sits exactly between the captain of India and West Indies?

A Sri Lanka

B South Africa

C Pakistan

D Australia

Answer: C

RRB NTPC Free Mock Tests

Question 74

The sum of three numbers is 100. The ratio of the first number to the second number is 4 : 9 and the ratio of the second to the third number is 3 : 4. Find the second number.

A 28

B 30

C 36

D 24

Answer: C

Explanation:

let the first no be A, second no be B and third no. C

$$\frac{A}{B} = \frac{4}{9}$$

$$\frac{B}{C} = \frac{3}{4}$$

B is common in both so we have to balance the B

$$\frac{A}{B} = \frac{4 \times 3}{9 \times 3}$$

$$\frac{B}{C} = \frac{3 \times 9}{4 \times 9}$$

$$\frac{A}{B} = \frac{12}{27}$$

$$\begin{aligned} B &= 27 \\ C &= 36 \end{aligned}$$

so

$$12x + 27x + 36x = 100$$

$$75x = 100$$

$$x = \frac{4}{3}$$

so, second no = $27x = 36$

Question 75

Which community gets special provision for certain services in Article 336?

- A Sikh community
- B Hindu community
- C Anglo-Indian community
- D Muslim community

Answer: C

Question 76

Complete the series. CJ, PU, ND, LG, (...)

- A RE
- B JE
- C KS
- D VV

Answer: B

RRB JE Previous Papers (Download Pdf)

Question 77

A sum of money at Simple Interest amounts to Rs.815 in 3 years and Rs.854 in 4 years. What is the sum?

- A Rs.698
- B Rs.690
- C Rs.700
- D Rs.650

Answer: A

Explanation:

$$1 \text{ year} = 854 - 815 = 39$$

for 1 yr Simple interest = 39

$$3 \text{ year SI} = 39 \times 3 = 117$$

$$\text{so} = 815 - 117 = 698$$

Question 78

Which of the following is/are rich in vitamin-A?

- A Tomato
- B Oranges
- C Apple
- D Carrot

Answer: D

Question 79

simplify $\sqrt{0.01} + \sqrt{0.0225}$

- A 16
- B 0.4
- C 4
- D 0.04

Answer: B

RRB JE Free Mock Test

Question 80

In which of the following lists is Economic planning placed?

- A Concurrent list
- B State list
- C Union list
- D Both State list and Union list

Answer: A

Question 81

What is the total surface area of a solid cylinder whose radius is half the radius of a circle of area 154 m and height is the same as its radius?

- A $312m^2$
- B $132 m^2$
- C $123 m^2$
- D $231 m^2$

Answer: D

Explanation:

$$\text{area of circle} = \pi \times r^2$$

$$154 \text{ m} = \pi \times r^2$$

$$r = 7 \text{ m}$$

cylinder

height H = radius of circle r

$$R = \frac{7}{2} = 3.5 \text{ m}$$

$$\text{TSA} = 2\pi \times R \times (R + H)$$

$$= 2\pi \times 3.5 \times (3.5 + 7)$$

$$= 231 \text{ m}^2$$

Question 82

P, Q and R enter into a partnership investing Rs.35000, Rs.45000 and Rs.55000. Find their respective share in the annual profit of Rs.40500.

A Rs.10500, Rs.13500, Rs.18500

B Rs.10500, Rs.13500, Rs.16500

C Rs.10500, Rs.13500, Rs.17500

D Rs.10500, Rs.13500, Rs.19500

Answer: B

Explanation:

Invested Amount is in the ratio = 35000 : 45000 : 55000

7 : 9 : 11

total ratio = 27

$$P = \frac{P'share}{totalshare} \times 40500$$
$$= \frac{7}{27} \times 40500 = \text{Rs.}10500$$

$$Q = \frac{Q'share}{totalshare} \times 40500$$
$$= \frac{9}{27} \times 40500 = \text{Rs.}13500$$

$$R = \frac{R'share}{totalshare} \times 40500$$
$$= \frac{11}{27} \times 40500 = \text{Rs.}16500$$

Daily Free RRB Online Test

Question 83

Complete the series. 167, 334, 668, 1336, (...)

A 2653

B 2681

C 2672

D 2661

Answer: C

Explanation:

167, 334, 668, 1336, (...)

$$167 + 167 = 334$$

$$334 + 334 = 668$$

$$668 + 668 = 1336$$

so,

$$1336 + 1336 = 2672$$

Question 84

The Simple Interest after 10 years at some rate will be Rs.600 on a certain sum. If the principal is trebled after 5 years, what will be the total interest at the end of tenth year?

- A Rs.600
- B Rs.1500
- C Rs.900
- D Rs.1200

Answer: D

Explanation:

let the original rate be R percent per year, the principal amount be P, time T

$$\text{Given is SI} = 600 = \frac{P \times R \times T}{100}$$

$$\text{Hence } P \times R = 6000$$

SI for first five years will be 300 at the end of first 5 years.

$$\text{When P is trebled for next five years, the SI for those five years will be} = \frac{3P \times R \times 5}{100} = \frac{P \times R \times 15}{100} = \frac{15 \times 6000}{100} = 900$$

so, the total interest will be $300 + 900 = 1200$

Question 85

Efficiencies of P, Q, R and S in doing a job are in the ratio 2 : 3 : 5 : 4. The wages paid for the job are Rs.4200. Who is paid the largest amount and how much is paid?

- A R, Rs.2000
- B S, Rs.1600
- C R, Rs.1500
- D P, Rs.2000

Answer: C

Explanation:

Total work = lcm (10,24,6) = 120 days

P's efficiency = 2x

Q's efficiency = 3x

R's efficiency = 5x

S's efficiency = 4x

tot efficiency = 14x

$$P'wage = \frac{\text{tot wage}}{\text{tot effi}} P' \text{ efficiency}$$

$$\frac{4200}{14x} 2x = 600Rs$$

$$Q'wage = \frac{totwage}{toteffi} Q'sefficiency$$

$$\frac{4200}{14x} 3x = 900Rs$$

$$R'wage = \frac{totwage}{toteffi} R'sefficiency$$

$$\frac{4200}{14x} 5x = 1500Rs$$

$$S'wage = \frac{totwage}{toteffi} S'sefficiency$$

$$\frac{4200}{14x} 4x = 1200Rs$$

R paid the largest amount = 1500Rs

RRB Group-D Previous Papers

Question 86

A, B, C, D, E, F, G and H are sitting around a circle facing the center. B is third to the right of F and third to the left of H. C is fourth to the left of A. A is not an immediate neighbour of F and B. E is not an immediate neighbour of B. G is second to the right of D. Who is to the immediate right of H?

A E

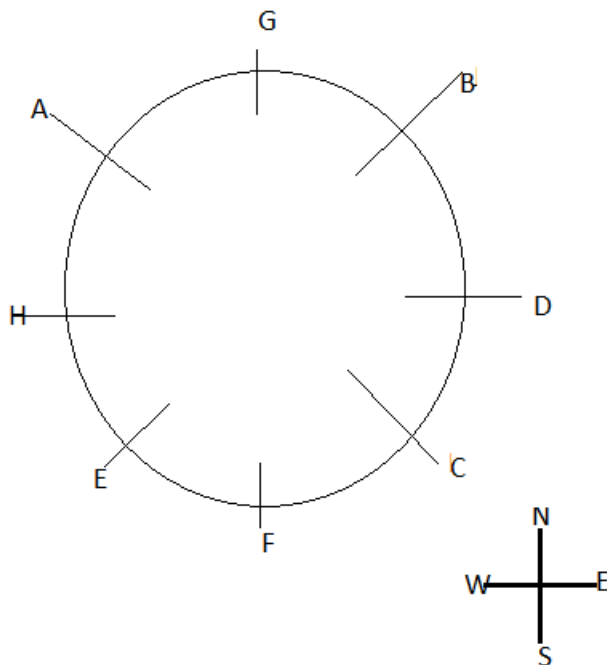
B A

C F

D G

Answer: A

Explanation:



E immediate right of H

Question 87

The town of Paranda is located on Green lake. The town of Akram is to the west of Paranda. Tokhada is to the east of Akram but to the west of Paranda. Kokran is east of Bopri but west of Tokhada and Akram. If they are all in the same district, which town is the farthest west?

- A Paranda
- B Kokran
- C Akram
- D Bopri

Answer: D

Question 88

If $10.98 \times 10.98 + 10.98K + 0.02 \times 0.02$ is a perfect square, then find the value of 'K'.

- A 0.4
- B 0.2
- C 0.04
- D 0.02

Answer: C

RRB Free Videos (You Tube Channel)

Question 89

Which of the following options will best complete the relationship given below?

8(246)3
3(213)7
3(???)5

- A 516
- B 615
- C 156
- D 165

Answer: C

Explanation:

8(246)3
3(213)7
3(???)5

$$8(246)3 = 8 \times 3 = 24$$

$$2 + 4 = 6$$

$$3(213)7 = 3 \times 7 = 21$$

$$2 + 1 = 3$$

$$3(???)5 = 3 \times 5 = 15$$

$$1 + 5 = 6$$

156

Question 90

Which of the following has comparatively high electrical resistance and is used in the circuit to reduce current?

- A Semi conductor
- B Resistor
- C Conductor
- D Insulator

Answer: B

Question 91

In Indian history, who was also known as Alamgir?

- A Aurangzeb
- B Babur
- C Jahangir
- D Akbar Top

Answer: A

20 RRB NTPC Mocks-Tests Rs.149

Question 92

In the right angle triangle the sides are in the ratio $1:1:\sqrt{2}$. find the $\cos A \cos B - \sin A \sin B$

- A 0
- B $\frac{1}{2}$
- C $\frac{1}{\sqrt{2}}$
- D 1

Answer: A

Question 93

Which of these sports is NOT a board (table) game

- A Squash
- B Chess
- C Carrom
- D Billiards

Answer: A

Question 94

Which mineral is essential for bones?

- A Iron
- B Sulphate
- C Calcium
- D Zinc

Answer: C

10 RRB JE Mocks-Tests Rs.117

Question 95

Simplify: $106 \times 106 + 94 \times 94$

- A 23032
- B 21032
- C 20032
- D 20072

Answer: D

Explanation:

$$106 \times 106 + 94 \times 94$$

apply bodmass

$$106 \times 106 = 11236$$

$$94 \times 94 = 8836$$

$$106 \times 106 + 94 \times 94 = 20072$$

Question 96

A person clapped his hands near a cliff and heard the echo after 4 seconds. What is the distance of the cliff from the person when the speed of the sound is 344 m/s?

- A 300 m
- B 600
- C 688
- D 344

Answer: C

Explanation:

A person clapped his hands near a cliff and heard the echo after 4 seconds.

so.

the sound traveled twice the distance between him/her and the cliff.

$$\text{Distance between cliff and person} = \frac{4}{2} \times 344$$

= 688 m

Question 97

The common transport form of sugar in plants is?

- A Sucrose
- B Galactose
- C Fructose
- D Glucose

Answer: A

RRB General Science Notes (Download Pdf)

Question 98

Which of the following is a weak base

- A NH_4OH
- B $Ca(OH)_2$
- C NaOH
- D KOH

Answer: A

Question 99

Which of the following is rich in dietary fibre?

- A Apples
- B White bread
- C Noodles
- D Ice-cream

Answer: A

Question 100

Which was the first satellite to be sent into space?

- A Vanguard
- B Rohini
- C Sputnik 1
- D Explorer 1

Answer: C

RRB GK Material (Download Pdf)

[RRB NTPC Free Mock Tests](#)

[RRB JE Previous Papers \(Download Pdf\)](#)

[RRB JE Free Mock Test](#)

[Daily Free RRB Online Test](#)

[RRB Group-D Previous Papers](#)

[RRB Free Videos \(You Tube Channel\)](#)

[20 RRB NTPC Mocks-Tests Rs.149](#)

[10 RRB JE Mocks-Tests Rs.117](#)

[RRB General Science Notes \(Download Pdf\)](#)

[RRB GK Material \(Download Pdf\)](#)

[RRB NTPC Previous Papers \(Download PDF\)](#)

[Join Competitive Exam Updates Telegram Group](#)