



RRB JE 2015 Paper

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

All Questions

Instructions

For the following questions answer them individually

Question 1

Identify the city which faced large scale destructions due to 'Hudhud' cyclone recently ?

- A Chennai
- B Vishakhapatnam
- C Kolkata
- D Hyderabad

Answer: B

RRB NTPC Free Mock Tests

Question 2

The Fundamental Duties of the Indian citizens are incorporated in the following Article of our constitution ?

- A Article 21 A
- B Article 51 A
- C Article 370 A
- D Article 19 A

Answer: B

Question 3

The speed of sound in air is approximately equal to :

- A 3×10^8 m/sec
- B 330 m/sec
- C 5000 m/sec
- D 1500 m/sec

Answer: B

Question 4

Hot Wire Instruments read :

- A Peak value
- B Average value
- C r. m. s. value
- D None of these

Answer: C

RRB JE Previous Papers (Download Pdf)

Question 5

Strain Gauge is used to convert :

- A Force into displacement
- B Mechanical displacement into change in resistance
- C Electric current into Mechanical displacement
- D Sound Energy into Electric Energy

Answer: B

Question 6

if an object lies in third quadrant, its position with respect to reference planes will be :

- A in front of V.P., Above H.P
- B Behind of V.P., Above H.P
- C in front of V.P., Below H.P
- D Behind of V.P., Below H.P

Answer: D

Question 7

Find the value of $(768)^3 + (232)^3 - (768)^2(232) - (768)(232)^2 + (232)^2$

- A 1000
- B 536
- C 500
- D 268

Answer: A

Explanation:

let say

a = 768

b = 232

therefore the formula for $a^3 + b^3 = (a+b)(a^2 - ab + b^2)$

using this we conclude that the answer is a+b i.e 768+232 = 1000

RRB JE Free Mock Test

Question 8

The Headquarters of West Central Railway is located at :

- A jabalpur

- B Jaipur
- C Allahabad
- D Ahmedabad

Answer: A

Question 9

If fineness Modulus of sand is 2.5, it is graded as :

- A Medium sand
- B Fine sand
- C Coarse sand
- D Very coarse sand

Answer: B

Question 10

If $\log_8 x = \frac{2}{3}$, then the value of x is:

- A $\frac{16}{3}$
- B $\frac{4}{3}$
- C 12
- D 4

Answer: D

Explanation:

Given that $\log_8 x = \frac{2}{3}$

$$\Rightarrow x = 8^{\frac{2}{3}}$$

$$\Rightarrow x = 2^2$$

$$\Rightarrow x = 4$$

Daily Free RRB Online Test

Question 11

A file which contains transient data to be processed in combination with a master file is called :

- A Sequential file
- B Master file
- C Random organization file
- D Transmission file

Answer: D

Question 12

M.C. (Moving Coil) and M.I. (Moving Iron) type of instruments can be distinguished by their :

- A Range
- B Size of terminals
- C Pointer
- D Scale

Answer: D

Question 13

Compiler and interpreters are examples of :

- A System software
- B Application software
- C Both (A) and (B)
- D None of these

Answer: A

RRB Group-D Previous Papers

Question 14

Schmitt trigger is also known as :

- A Sweep circuit
- B Blocking oscillator
- C Squaring circuit
- D Stable multi vibrator

Answer: C

Question 15

Find the missing term of the following series : 4, 7, 12, ? , 28, 39.

- A 17
- B 18
- C 21
- D 19

Answer: D

Explanation:

In the given series, 4, 7, 12, ? , 28, 39.

Difference between n and n-1 term is again in form of series 3,5,.. To satisfy this pattern, Missing number 19 would be right choice.

Hence, Option D is right choice.

Question 16

Find the value of $(2744)^{\frac{1}{3}}$:

- A 24
- B 14
- C 34
- D 16

Answer: B

Explanation:

$$2744 = \sqrt[3]{14^3}$$

So, the answer would be option b)14.

RRB Free Videos (You Tube Channel)

Question 17

Which of the following is a presentation graphics software ?

- A MS Windows
- B MS Word
- C MS Excel
- D MS PowerPoint

Answer: D

Question 18

Find the missing term of the following series : BZA, DYC, FXE, ? ,

- A HWG
- B HUG
- C WHG
- D GUH

Answer: A

Question 19

Which of the following is biodegradable pollutant ?

- A DDT
- B BHC
- C Cotton cloth

D Mercury

Answer: C

20 RRB NTPC Mocks-Tests Rs.149

Question 20

Who is the Chief Minister of Tamil Nadu ?

A Mr. O. Panneerselvain

B Ms. J. Jayalalitha

C Mr. Karunanidhi

D Mr. Dayanidhi Maran

Answer: A

Question 21

With the formation of Telangana, how many States are there in our country now ?

A 30

B 29

C 28

D 31

Answer: B

Question 22

Find out the term which is different from other terms in the following : 22, 33, 66, 99, 121, 279, 594

A 99

B 121

C 279

D 594

Answer: C

Explanation:

except 279 all other are divisible by 11

10 RRB JE Mocks-Tests Rs.117

Question 23

Transformer cores are laminated in order to :

A Minimise eddy current loss

B Reduce cost

C Simplify its constructions

D None of these

Answer: A

Question 24

Which one of the following is not a Noble Gas ?

A Helium

B Bromine

C Argon

D Neon

Answer: B

Question 25

For which of the following applications, a D.C. motor is preferred over an A.C. motor ?

A Variable speed operation

B High speed operation

C low speed operation

D Fixed speed operation

Answer: A

RRB General Science Notes (Download Pdf)

Question 26

The nucleus of an atom generally, contains :

A Protons and Neutrons

B Protons and Electrons

C Electrons and Neutrons

D Only Neutrons

Answer: A

Question 27

The language which a computer can understand is :

A High Level language

B Machine language

C System software

D All of these

Answer: B

Question 28

A four stroke petrol engine theoretically operates on :

- A Joule cycle
- B Otto cycle
- C Brayton cycle
- D Bell Coleman cycle

Answer: B

RRB GK Material (Download Pdf)

Question 29

Secretion of insulin Hormone is by :

- A Thyroid
- B Pituitary
- C Adrenal
- D Pancreas

Answer: D

Question 30

Jama Masjid at Delhi was built by :

- A Akbar
- B Jahangir
- C Shah Jahan
- D Aurangzeb

Answer: C

Question 31

Which one of the following is also known as Red Planet ?

- A Mercury
- B Venus
- C Earth
- D Mars

Answer: D

RRB NTPC Previous Papers (Download PDF)

Question 32

Who wrote the book "Not Just An Accountant" published recently ?

- A P.C. Parakh
- B Sanjay Baru
- C Vinod Rai
- D Natwar Singh

Answer: C

Question 33

In sand Moulding, the top flask is known as :

- A Cope
- B Drag
- C Check
- D Fillet

Answer: A

Question 34

In a well conditioned triangle, no angle should be less than :

- A 60°
- B 50°
- C 30°
- D 45°

Answer: C

Explanation:

A well conditioned triangle should have the following condition ie it should not be less than 30 degrees and not more than 120 degrees. So, the answer would be option c) 30°

Join Competitive Exam Updates Telegram Group

Question 35

Find the value of $(1 + 2 + 3 + 4 + \dots + 45)$

- A 2140
- B 2070
- C 1035
- D 1280

Answer: C

Explanation:

We know that sum of "n" natural numbers = $\frac{(n)(n+1)}{2}$

Here n = 45

$$\Rightarrow \text{Sum} = \frac{45 \times 46}{2}$$

$$\Rightarrow \text{Sum} = 1035$$

Question 36

If a thin rectangular plate of 60 mm x 30 mm is inclined at an angle of 60° to the Horizontal Plane, its top view may be :

- A Square of 30 mm size
- B Square of 60 mm size
- C Rectangle of 60 mm x 45 mm size
- D Rectangle of 45 mm x 30 mm size

Answer: E

Question 37

Red rot is a plant disease which affects :

- A Wheat
- B Rice
- C Sugarcane
- D Cotton

Answer: C

RRB NTPC Free Mock Tests

Question 38

Pipe 'P' can fill a tank in 36 hours and pipe 'Q' can fill this tank in 45 hours. If both the pipes are opened simultaneously, then how much time will be taken to fill this tank ?

- A 20 hours
- B $40\frac{1}{2}$ hours
- C 9 hours
- D 42 hours

Answer: A

Explanation:

Required answer

$$= \frac{1}{36} + \frac{1}{45} = \frac{81}{36 \times 45} = \frac{1}{20}$$

If both the pipes are opened simultaneously, then 20 hrs will be taken to fill this tank.

So, the answer would be option a) 20 hours

Question 39

Earthworm belongs to which of the following Animal Phyla ?

- A Arthropoda
- B Mollusca
- C Annelida
- D Protozoa

Answer: C

Question 40

When Ram and Mohan work together, they complete a work in 4 days. If Ram alone can complete this work in 12 days then in how many days Mohan alone can complete this work ?

- A 10 days
- B 8 days
- C 6 days
- D 16 days

Answer: C

Explanation:

When Ram and Mohan work together, they complete a work in 4 days. In one day, they complete $\frac{1}{4}$ of work.

Ram alone can complete in 12 days. Ram can do $\frac{1}{12}$ of work in one day.

Work done by Mohan in 1 day = $\frac{1}{4} - \frac{1}{12} = \frac{1}{6}$

Therefore, Mohan can complete in 6 days if he works alone.

RRB JE Previous Papers (Download Pdf)

Question 41

A simply supported beam of length L is loaded with a uniformly distributed load of ω per unit length. The maximum bending moment will be :

- A $\frac{\omega L^2}{4}$
- B $\frac{\omega L^2}{8}$
- C $\frac{\omega L^2}{2}$
- D ωL^2

Answer: B

Question 42

Fins are provided on heat transferring surface in order to increase :

- A Heat transfer area
- B Heat transfer coefficient
- C Temperature gradient

D Mechanical strength of the equipment

Answer: A

Question 43

For perfectly elastic bodice, the value of coefficient of restitution is :

A zero

B 0.5

C 1.0

D 0.25

Answer: C

RRB JE Free Mock Test

Question 44

Which one of the following is not a scalar quantity ?

A Volume

B Mass

C Force

D Length

Answer: C

Question 45

Find the average of all prime numbers between 30 and 50 :

A 48

B 39

C 39.8

D 38

Answer: C

Explanation:

Prime numbers between 30 to 50 are 31, 37, 41, 43, 47

Average of these five numbers = $\frac{\text{sum of 5 numbers}}{5}$

$$\Rightarrow \text{avg} = \frac{199}{5} = 39.8$$

Question 46

In an examination, 35% of the students passed and 455 failed. How many students appeared for the examination ?

A 700

B 1300

C 845

D 1250

Answer: A

Explanation:

If 35% of total students passed, then 65% failed.

Let the total number of students be x.

$$\frac{65}{100}x = 455 \Rightarrow x = 700$$

So, the answer would be option a)700

Daily Free RRB Online Test

Question 47

Find the L.C.M. of 148 and 185

A 680

B 740

C 2960

D 3700

Answer: B

Explanation:

$$148 = 2^2 \times 37$$

$$185 = 5 \times 37$$

$$\text{LCM} = 2^2 \times 5 \times 37 = 740$$

So, the answer would be option b)740

Question 48

A 4 - pole, 1500 r.p.m. alternator will generate e.m.f. at :

A 20 Hz

B 60 Hz

C 40 Hz

D 50 Hz

Answer: D

Explanation:

$$N = \frac{120f}{p}$$

where

$$N = \text{r.p.m}$$

f = emf induced

p = number of poles

$$1500 = \frac{120f}{4}$$

$$f = 50 \text{ Hz}$$

So, the answer would be option d)50 Hz

Question 49

In an examination, a student gets 4 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts in all 60 questions and secures 130 marks, then find the number of questions he attempted correctly.

- A 42
- B 48
- C 38
- D 36

Answer: C

Explanation:

Let the number of questions answered correctly = x

A/c to question ,

$$4x + (60 - x)(-1) = 130$$

$$\Rightarrow x = 38$$

So, the answer would be option c)38

RRB Group-D Previous Papers

Question 50

Ampere second is the unit of :

- A Charge
- B Power
- C Voltage
- D Energy

Answer: A

Question 51

One side of a rectangular field is 15 metres. The length of diagonal of this rectangular field is 17 metres. Find the 'area of this rectangular field.

- A $120m^2$
- B $60m^2$
- C $255m^2$
- D $144\frac{1}{2}m^2$

Answer: A

Explanation:

Other side of the triangle

$$= \sqrt{17^2 - 15^2} = \sqrt{64} = 8cm$$

$$\text{Area} = lb = 15 \times 8 = 120m^2$$

So, the answer would be option a) $120m^2$

Question 52

The resultant of two forces P and Q acting at an angle θ , is given by :

A $\sqrt{P^2 + Q^2 + 2PQ\tan\theta}$

B $\sqrt{P^2 + Q^2 + 2PQ\sin\theta}$

C $\sqrt{P^2 + Q^2 + 2PQ\cos\theta}$

D $P^2 + Q^2 + 2PQ\tan\theta$

Answer: C

Explanation:

So, the answer would be option c) $\sqrt{P^2 + Q^2 + 2PQ\cos\theta}$

RRB Free Videos (You Tube Channel)

Question 53

Power Loss in a resistor is given by :

A $P = V^2R$

B $P = \frac{V}{I}$

C $P = \frac{I^2}{R}$

D $P = \frac{V^2}{R}$

Answer: D

Question 54

If the cost of 'x' metres of wire is 'd' rupees, then what is the cost of 'y' metres of same wire ?

A $\frac{yd}{x}$

B $\frac{xd}{y}$

C $\frac{xy}{d}$

D $\frac{d}{xy}$

Answer: A

Explanation:

Given that the cost of 'x' metres of wire is 'd' rupees.

Therefore, cost of 1 metre = $\frac{d}{x}$

=> cost of y metres = $\frac{yd}{x}$

Question 55

Primary storage in computer terminology refers to :

- A Hard Disc Drive
- B Random Access Memory (RAM)
- C Read Only Memory (ROM)
- D The storage device where the operating system is stored

Answer: B

20 RRB NTPC Mocks-Tests Rs.149

Question 56

Which of the following flip-flops is used as Latch ?

- A JK flip-flop
- B RS flip-flop
- C D flip-flop
- D T flip-flop

Answer: B

Question 57

..... Will translate the complete programme at once from a high level language to the machine language

- A Compiler
- B Assembler
- C Joystick
- D Bus

Answer: A

Question 58

Which of the following is a prime number ?

- A 33
- B 87
- C 93
- D 97

Answer: D

Explanation:

From the given options, It can be observed that 97 is a prime number as other three numbers have factors other 1 & itself for them.

10 RRB JE Mocks-Tests Rs.117

Question 59

The total number of bones in the average adult human skeleton is :

- A 350
- B 206
- C 115
- D 540

Answer: B

Question 60

Water has its maximum density at :

- A 0°C
- B 100°C
- C 50°C
- D 4°C

Answer: D

Question 61

Which of the following processes is generally used for mass production of connecting rod in Automobile Engines ?

- A Sand Casting
- B Cold Chilling
- C Forging
- D Spinning

Answer: C

RRB General Science Notes (Download Pdf)

Question 62

What is the General formula of Alkanes ?

- A C_nH_{2n+2}
- B C_nH_{2n}
- C C_nH_{2n-2}
- D C_nH_{2n+4}

Answer: A

Question 63

A gate in which all inputs must be high to get a low output is :

- A An inverter
- B AND gate
- C NOR gate
- D NAND gate

Answer: C

Question 64

Which of the following Amplifiers produces the least distortion ?

- A Class A
- B Class B
- C Class AB
- D Class C

Answer: A

RRB GK Material (Download Pdf)

Question 65

Cyclo converter converts :

- A AC to DC
- B DC to AC
- C A fixed AC to a variable magnitude AC
- D A fixed DC to a variable magnitude DC

Answer: C

Question 66

Separation of water or sand or cement from a freshly mixed concrete is known as :

- A Segregation
- B Creeping
- C Bleeding
- D Hooding

Answer: C

Question 67

The value of binary 1111 is :

- A 2^3
- B $2^3 - 1$

C 2^4

D $2^4 - 1$

Answer: D

RRB NTPC Previous Papers (Download PDF)

Question 68

The load which does not change its magnitude and position with time is called :

A Live load

B Dynamic load

C Creep load

D Dead load

Answer: D

Question 69

Find the missing term of the following series :

1, 4, 27, 16, ?, 36, 343.

A 25

B 216

C 64

D 125

Answer: D

Explanation:

The pattern is like :

$1^3, 2^2, 3^3, 4^2, 5^3, 6^2, 7^3$

So, the answer would be option d) 125

Question 70

The entropy of universe tends to be :

A Minimum

B Zero

C Average

D Maximum

Answer: D

Join Competitive Exam Updates Telegram Group

Question 71

Ammonia is prepared commercially by the :

- A Oswald process
- B Hall process
- C Contact process
- D Haber process

Answer: D

Question 72

A bullet is fired vertically upwards with a velocity of 196 m/sec. What is the maximum height reached by the bullet ? (Assuming $g=9.8$ m/s²)

- A 1960 m
- B 196 m
- C 980 m
- D 490 m

Answer: A

Explanation:

u = initial velocity = 196 m/s

v = final velocity = 0 m/s

As it reaches highest point, velocity of bullet becomes zero.

g = acceleration due to gravity = 9.8 m/s^2

h = Maximum Height

$$v^2 - u^2 = 2gh$$

$$0 - 196^2 = 2 \times 9.8 \times h$$

$$h = 1960$$

So, the answer would be option a) 1960 m

Question 73

If $\frac{x}{y} = \frac{6}{5}$, then find the value of $\frac{x^2+y^2}{x^2-y^2}$

- A 11
- B $\frac{61}{11}$
- C $\frac{11}{5}$
- D 6

Answer: B

Explanation:

$$\frac{x^2+y^2}{x^2-y^2}$$

Divide numerator and denominator by y^2 ,

$$\frac{y^2+1}{x^2-1}$$

$$= \frac{36}{25} + 1$$

$$= \frac{61}{25}$$

$$= 11$$

So, the answer would be option b) $\frac{61}{11}$

RRB NTPC Free Mock Tests

Question 74

Goutam Buddha delivered his first sermons at :

- A Kusinagar
- B Sarnath
- C Pataliputra
- D Vaishali

Answer: B

Question 75

The 'Quit India Movement' was launched in the year :

- A 1920 A.D.
- B 1930 A.D.
- C 1942 A.D.
- D 1946 A.D.

Answer: C

Question 76

'When a body is wholly or partially, immersed in a fluid, it experiences an upthrust equal to the weight of the fluid displaced'. This is known as :

- A Pascal's principle
- B Archimedes principle
- C Stoke's law
- D Newton's Laws of Motion

Answer: B

RRB JE Previous Papers (Download Pdf)

Question 77

Disinfection of drinking water is done to remove

- A Odour
- B Bacterias
- C Turbidity
- D Colour

Answer: B

Question 78

Projection of an object shown by three views is known as :

- A Perspective
- B Oblique
- C Orthographic
- D None of these

Answer: C

Question 79

The United Nations Day (U.N.Day) is celebrated every year on :

- A Dec 26
- B Nov 14
- C Sept 5
- D Oct 24

Answer: D

RRB JE Free Mock Test

Question 80

If t_o , t_p and t_m are the optimistic, pessimistic and most likely time estimates of an activity respectively, then the expected time t of the activity will be :

- A $\frac{t_o+t_p+t_m}{3}$
- B $\frac{t_o+t_p+3t_m}{5}$
- C $\frac{t_o+t_p+2t_m}{4}$
- D $\frac{t_o+t_p+4t_m}{6}$

Answer: D

Explanation:

The answer would be option d) $\frac{t_o+t_p+4t_m}{6}$

Question 81

Choose the option which correctly shows the relationship between Modulus of Elasticity (E); Modulus of Rigidity (C) and Bulk Modulus (K) :

A $E = \frac{KC}{K+C}$

B $E = \frac{2KC}{2K+C}$

C $E = \frac{9KC}{3K+C}$

D $E = \frac{3KC}{K+2C}$

Answer: E

Question 82

Who is the winner of Mens Singles Title in Tennis in US open, 2014 ?

A Roger Federer

B Kci Nishikori

C Marin Cilic

D Rafael Nada

Answer: C

Daily Free RRB Online Test

Question 83

The elements which have same mass number but different atomic numbers are known as :

A Isotones

B Isobars

C Isotopes

D Halogens

Answer: E

Question 84

Weld spatter is a/an

A Flux

B Electrode

C Welding defect

D None of these

Answer: C

Question 85

A CRO can display :

- A D.C. signals only
- B A.C. signals only
- C Both D.C. and A.C. signals
- D Time - invariant signals

Answer: C

RRB Group-D Previous Papers

Question 86

The pollutant responsible for ozone holes is :

- A CO_2
- B CO
- C SO_2
- D CFC

Answer: D

Question 87

A transformer has 1000 primary turns. It is connected to 250 volts A.C. supply. Find the number of secondary turns to get secondary voltage of 400 volts.

- A 1600
- B 625
- C 100
- D 1250

Answer: A

Question 88

Lokpriya Gopinath Bardoloi International Airport is located at :

- A Jaipur
- B Bangalore
- C Guwahati
- D Hyderabad

Answer: C

RRB Free Videos (You Tube Channel)

Question 89

Time constant of a series R-L circuit is :

- A LR seconds
- B $\frac{L}{R}$ seconds
- C L^2R seconds
- D LR^2 seconds

Answer: B

Question 90

Who wrote 'indica' ?

- A Kautilya
- B Kalidasa
- C Shudraka
- D Arrian

Answer: D

Question 91

Who is the winner of Nobel Prize, 2014 in the field of Economics ?

- A Patrick Modiano
- B Malala Yousafzai
- C Jean Tirole
- D Kailash Satyarthi

Answer: E

20 RRB NTPC Mocks-Tests Rs.149

Question 92

A cyclotron is a :

- A Bunch of Gamma Rays
- B High Frequency Oscillator
- C Particle Accelerator
- D None of these

Answer: E

Question 93

A man buys an article for Z 490 and sells it for Z 465.50. Find his loss percentage.

- A 4%
- B 4.5%

C 5%

D 5.5%

Answer: C

Explanation:

Given that C.P = 490, S.P = 465.5

We know that Loss percentage = $\frac{C.P - S.P}{C.P} \times 100$

$$\Rightarrow \text{Loss \%} = \frac{24.5}{490} \times 100$$

$$\Rightarrow \text{Loss \%} = 5\%$$

Question 94

'The Servants of India Society' was founded by :

A Jyotiba Phule

B G.K. Gokhale

C B.G. Tilak

D B.R. Ambedkar

Answer: B

10 RRB JE Mocks-Tests Rs.117

Question 95

Find the angle between the hour hand and the minute hand of a clock when the time is 10.25 hours i.e. 25 minutes past 10 ?

A 180°

B 165°

C $162\frac{1}{2}^\circ$

D $152\frac{1}{2}^\circ$

Answer: C

Explanation:

In every hour, hour hand covers 30° .

So, at 10:25 pm, angle covered by hour hand will be,

$$\frac{30 \times 125}{12} = 312.5^\circ$$

In every hour, minute hand will cover 360°

So, at 10:25 pm, angle covered by minute hand will be,

$$60 \times 25 = 150^\circ$$

angle between the hour hand and the minute hand of a clock = $312.5^\circ - 150^\circ = 162\frac{1}{2}^\circ$

So, the answer would be option c) $162\frac{1}{2}^\circ$

Question 96

Hopkinson's test for D.C. motors is conducted of :

- A Low Load
- B Half Load
- C Full Load
- D No Load

Answer: C

Question 97

The dimensions of a brick are 10 cm x 4 cm x 3 cm. What is the total surface area of this brick ?

- A $82cm^2$
- B $164cm^2$
- C $120cm^2$
- D $180cm^2$

Answer: B

Explanation:

Given that dimensions of a brick are 10 cm x 4 cm x 3 cm.

Total surface area of a cuboid = $2[(l \times b) + (l \times h) + (b \times h)]$

$$\Rightarrow T.S.A = 2[(10 \times 4) + (10 \times 3) + (4 \times 3)]$$

$$\Rightarrow T.S.A = 2(40 + 30 + 12) = 164cm^2$$

RRB General Science Notes (Download Pdf)

Question 98

To be eligible for elected as President, a candidate must be :

- A Over 25 years of age
- B Over 30 years of age
- C Over 35 years of age
- D Over 60 years of age

Answer: C

Question 99

The reduced bearing of a laminatede is N 87° W. Its whole circle bearing is :

- A 273°
- B 3°
- C 93°
- D 87°

Answer: E

Question 100

Arrange the factors $\frac{3}{5}$, $\frac{4}{7}$, $\frac{8}{9}$ and $\frac{9}{11}$ in their descending order:

A $\frac{8}{9} > \frac{9}{11} > \frac{3}{5} > \frac{4}{7}$

B $\frac{9}{11} > \frac{8}{9} > \frac{4}{7} > \frac{3}{5}$

C $\frac{3}{5} > \frac{4}{7} > \frac{8}{9} > \frac{9}{11}$

D $\frac{4}{7} > \frac{8}{9} > \frac{3}{5} > \frac{9}{11}$

E $\frac{8}{9} > \frac{9}{11} > \frac{4}{7} > \frac{3}{5}$

Answer: E

Explanation:

$$\frac{3}{5} = 0.6, \frac{4}{7} = 0.57, \frac{8}{9} = 0.88, \frac{9}{11} = 0.818$$

So, the correct order will be $\frac{8}{9} > \frac{9}{11} > \frac{4}{7} > \frac{3}{5}$

So, the answer would be option e) $\frac{8}{9} > \frac{9}{11} > \frac{4}{7} > \frac{3}{5}$

RRB GK Material (Download Pdf)

Question 101

The pressure exerted on the walls of a container by a gas is due to the fact that Gas molecules :

A Stick to the walls of the container

B Lose their kinetic energy

C Get accelerated towards the wall

D Change their momentum due to collision with the wall.

Answer: D

Question 102

The thermal diffusivity of a substance is given by :

A $\frac{K\rho}{C}$

B $\frac{K}{\rho C}$

C $\frac{KC}{\rho}$

D $\frac{\rho C}{K}$

Answer: E

Question 103

Boyles law states that :

A The pressure of a gas varies directly with temperature at constant volume i.e. $P \propto T$

- B** The product of pressure and volume of a given mass of a gas is constant at constant temperature i.e. $PV = \text{constant}$.
- C** The volume of a gas varies directly with temperature at constant pressure i.e. $V \propto T$.
- D** The pressure of a gas varies directly with volume at constant temperature i.e. $P \propto V$.

Answer: B

RRB NTPC Previous Papers (Download PDF)

Question 104

At what temperature, both Celsius and Fahrenheit scales will show the identical readings ?

- A** 100°
- B** 0°
- C** -40°
- D** 40°

Answer: C

Question 105

A capacitor stores 1 coulomb at 10 volts. Its capacitance is (f = farad) :

- A** 1 f
- B** 10 f
- C** 0.1 f
- D** 0.01 f

Answer: C

Question 106

Who is the Chairperson of National Commission for Women in India ? (As on 01.11.2014)

- A** Jayanti Patnaik
- B** Girija Vyas
- C** Marrta Sharma
- D** Lalitha Kumaramangalarn

Answer: D

Join Competitive Exam Updates Telegram Group

Question 107

In a certain code language, 'HAND' is written as 'SZMW', then what will be the code of 'MILK' ?

- A** ORNP

- B PNRO
- C NROP
- D RNOP

Answer: E

Question 108

The famous chinese pilgrim 'Hierin Tsang' visited India during the reign of

- A Harshavardhan
- B Chandragupta II
- C Ashoka
- D Kanishka

Answer: A

Question 109

When an object is cut by a section plane, parallel to H.P. and perpendicular to V.P., then the sectional view of the object is obtained in :

- A top view
- B Front view
- C Left side view
- D Right side view

Answer: A

Explanation:

When an object is cut by a section plane, parallel to H.P. and perpendicular to V.P., then the sectional view of the object is obtained in top view.

For ex - Frustum , which is initially a cone , but it is cut by a section plane, parallel to H.P. and perpendicular to V.P. , top view is obtained.

So, the answer would be option a)top view

RRB NTPC Free Mock Tests

Question 110

A conductor of axial length 30 cms carries a current of 100 A and lies at right angle to a magnetic field of strength 0.4 tesla. What is the force exerted on it ?

- A 10 N
- B 12 N
- C 1.2 N
- D 0

Answer: B

Explanation:

Force acting on conductor in magnetic field is given by-

$$F = IlB\sin \theta$$

where

I = Current

l = Length of wire

B = strength of magnetic field

$$F = 100 \times 0.3 \times 0.4 \times \sin 90^\circ$$

$$F = 12 \text{ N}$$

Therefore, force acting on current carrying conductor in given magnetic field is 12 N.

So, the answer would be option b)12 N.

Question 111

The property of a material by which it can be rolled into sheets is called :

- A Elasticity
- B Plasticity
- C Ductility
- D Malleability

Answer: D

Question 112

'Giddha' is a folk dance of :

- A Punjab
- B UttarPradesh
- C Assam
- D Maharashtra

Answer: A

RRB JE Previous Papers (Download Pdf)

Question 113

Identify the disease which is caused due to deficiency of Protein ?

- A Scurvy
- B Berl-Berl
- C Night-Blindness
- D Kwashiorkor

Answer: E

Question 114

With which of the following, the intrinsic semi conductor Silicon be doped in order to obtain p-type semi-conductor

- A Boron

- B Phosphorus
- C Gallium
- D None of these

Answer: A

Question 115

Which of the following is a universal gate ?

- A AND
- B NAND
- C NOR
- D Both NAND and NOR

Answer: D

RRB JE Free Mock Test

Question 116

The length of two trains are 140 m and 160 m respectively. If they run at the speed of 60 km/h and 40 km/h respectively in opposite directions on parallel tracks, then find the time in which they will cross each other.

- A 10 sec
- B 10.8 sec
- C 9 sec
- D 9.6 sec

Answer: B

Explanation:

Since trains are travelling in opposite direction,

Distance = Sum of length of two trains = 140 + 160 = 200 m

Relative speed = 60 + 40 = 100 km/hr = $\frac{100 \times 5}{18} = \frac{500}{18} \text{ m/s}$

Time = $\frac{300 \times 18}{500} = 10.8 \text{ sec}$

So, the answer would be option b) 10.8 sec

Question 117

Which device changes the alternating e.m.f. generated by the D.C. Generator in its armature coil to D.C. ?

- A Slip ring
- B Rectifier
- C Commutator
- D None of these

Answer: C

Question 118

If 1st January, 2014 was Wednesday, then 29th December, 2014 will be

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

Answer: B

Explanation:

2014 is not a leap year, so number of days will be 365 in year 2014.

Number of days from 1st January 2014 to 29th December 2014 is 362.

362 days = 51 weeks + 5 odd days

Therefore, 29th December, 2014 will be Wednesday + 5 = Monday.

Daily Free RRB Online Test

Question 119

A Mac is a :

- A Two terminal bi-directional switch
- B Three terminal bi-directional switch
- C Two terminal uni-directional switch
- D Three terminal uni-directional switch

Answer: E

Question 120

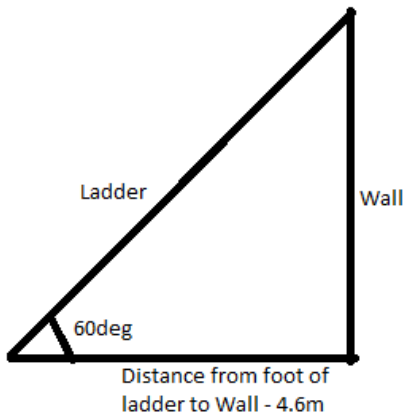
The angle of elevation of a ladder leaning against a wall is 60° i.e. ladder makes an angle of 60° with the ground. The foot of the ladder is 4.6 metres away from the wall. What is the length of this ladder ?

- A 9.2 m
- B 2.3 m
- C 6.9 m
- D 7.8 m

Answer: A

Explanation:

From the given information, Below figure is formed.



Here, $\cos 60^\circ = \frac{\text{Distance from foot of ladder to wall}}{\text{length of ladder}}$

$$\Rightarrow \frac{1}{2} = \frac{4.6}{l}$$

$$\Rightarrow l = 9.2m$$

Question 121

Galena is an ore of :

- A Lead
- B Copper
- C Aluminium
- D iron

Answer: A

RRB Group-D Previous Papers

Question 122

The sum of two numbers is 40 and the difference of these two numbers is 4. Find the ratio of these two numbers.

- A 11 : 9
- B 11 : 18
- C 22 : 9
- D 17 : 13

Answer: A

Explanation:

Given that sum of two numbers is 40 and the difference of these two numbers is 4.

Let's consider two numbers as a & b.

Therefore

$$\Rightarrow a + b = 40 \text{ --- (1)}$$

$$\Rightarrow a - b = 4 \text{ --- (2)}$$

Adding (1) & (2), we get $2a = 44 \Rightarrow a = 22$

Therefore, $b = 18$

Hence, ratio is 22:18 i.e., 11:9

Question 123

The MS code which deals with steel structures is :

- A BIS : 456
- B BIS : 800
- C BIS : 875
- D BIS : 1893

Answer: B

Question 124

The area of an equilateral triangle is $24\sqrt{3}cm^2$. What is the perimeter of this equilateral triangle ?

- A 96 cm
- B $4\sqrt{6}$ cm
- C $12\sqrt{6}$ cm
- D $6\sqrt{6}$ cm

Answer: C

Explanation:

Given , area of triangle = $24\sqrt{3}cm^2$

$$\frac{\sqrt{3}}{4} a^2 = 24\sqrt{3}cm^2$$

$$a = 4\sqrt{6}cm$$

$$\text{Perimeter} = 3 (4\sqrt{6}) = 12\sqrt{6}$$

So, the answer would be option c) $12\sqrt{6}$ cm

RRB Free Videos (You Tube Channel)

Question 125

When we open an internet site, we see 'www' ? What is the full form of 'WWW.

- A World Wide Web
- B World Wide Word
- C Words Wise Web
- D None of these

Answer: A

Question 126

The term 'Operating System' means :

- A A set of programmes which controls computer working
- B The way a computer operator works

C Conversion Of high level language into machine level language

D None of these

Answer: A

Question 127

If a point moves in a plane in such a way that the sum of its distances from two fixed points is constant, the curve so traced is called :

A Parabola

B Ellipse

C Hyperbola

D All of these

Answer: B

Explanation:

If a point moves on a plane in such a way that the sum of its distances from two fixed points on the plane is always a constant then the locus traced out by the moving point on the plane is called an ellipse and the two fixed points are the two foci of the ellipse.

to the length of the major axis of the ellipse.

Let P (x, y) be any point on the ellipse $x^2/a^2 + y^2/b^2 = 1$.

Let MPM' be the perpendicular through P on directrices ZK and Z'K'. Now by definition we get,

$$SP = e \cdot PM$$

$$\Rightarrow SP = e \cdot NK$$

$$\Rightarrow SP = e (CK - CN)$$

$$\Rightarrow SP = e(ae - x)$$

$$\Rightarrow SP = a - ex \dots\dots\dots (i)$$

and

$$S'P = e \cdot PM'$$

$$\Rightarrow S'P = e \cdot (NK')$$

$$\Rightarrow S'P = e (CK' + CN)$$

$$\Rightarrow S'P = e (ae + x)$$

$$\Rightarrow S'P = a + ex \dots\dots\dots (ii)$$

Therefore, $SP + S'P = a - ex + a + ex = 2a =$ major axis.

Hence, the sum of the focal distance of a point P (x, y) on the ellipse $x^2/a^2 + y^2/b^2 = 1$, is constant and equal to the length of the major axis (i.e., 2a) of the ellipse.

So , the answer would be option b) Ellipse

20 RRB NTPC Mocks-Tests Rs.149

Question 128

A byte is group of :

A 2 bits

B 4 bits

C 8 bits

D 16 bits

Answer: C

Question 129

Who is the President of China ? (As on 01.11.2014)

A Li Kegiang

B Xi Jinping

C Shinty Abe

D Hu Jintao

Answer: B

Question 130

Who is the speaker of present Lok Sabha ? (As on 01.11.2014)

A Smt. Sumitra Mahajan

B Snit. Sushma Swaraj

C Smt. Meira Kumar

D None of these

Answer: A

10 RRB JE Mocks-Tests Rs.117

Question 131

Ravi runs 200 metres in 24 seconds. Find his average speed :

A 20 km/h

B 24 km/h

C 28.3 km/h

D 30 km/h

Answer: D

Explanation:

$$\text{Average speed} = \frac{200 \times 3600}{24 \times 1000} = 30 \text{ km/hr}$$

So, the answer would be option d)30 km/h

Question 132

The relationship between Bulk density (γ), Dry density (γ_d) and water content (ω) for soil is:

A $\gamma = \gamma_d(1 + \omega)$

B $\gamma_d = \gamma(1 + \omega)$

C $\gamma = \frac{\gamma_d}{(1+\omega)}$

D $\gamma = \gamma_d(1-\omega)$

Answer: A

Explanation:

Moisture content of soil is defined as the ratio of mass of water to the mass of solids present in the soil sample. It is represented by ω .

$$\omega = \frac{\text{Mass of water}}{\text{Mass of solids}} = \frac{M_w}{M_s}$$

Dry density of soil is defined as the ratio of Mass of solids to the total volume of the soil. It is represented by γ_d

$$\gamma_d = \frac{\text{Mass of solids}}{\text{Total volume of soil}} = \frac{M_s}{V}$$

To obtain relationship between the moisture content and dry density, multiply the numerator and denominator of expression of dry density with "M" which is mass of soil sample.

$$\gamma_d = \frac{M_s}{V} \times \frac{M}{M} = \frac{M}{V} \times \frac{M_s}{M}$$

Mass of the soil (M) is nothing but the addition of Mass of solids (Ms) and Mass of water (Mw).

$$\gamma_d = \frac{\frac{M}{M_s + M_w}}{M_s}$$

Ratio of mass to the volume is bulk density of soil which is denoted as γ

Therefore, $\gamma = \gamma_d(1 + \omega)$.

So, the answer would be option a) $\gamma = \gamma_d(1 + \omega)$

Question 133

Which country won the FIFA world cup, 2014 in Football

- A Germany
- B Argentina
- C Brazil
- D France

Answer: A

RRB General Science Notes (Download Pdf)

Question 134

Which of the following is not a cold working process?

- A Extrusion
- B Slitting
- C Blanking
- D Lancing

Answer: E

Question 135

Pointing to a man in a photograph, Asha said, "His mother's only daughter is my mother". How is that man related to Asha ?

- A Brother
- B Maternal Uncle
- C Grand Father
- D Father

Answer: E

Question 136

What is 15% of 34 kg ?

- A 3.4 kg
- B 3.75 kg
- C 4.50 kg
- D 5.10 kg

Answer: D

Explanation:

$$(15 \div 100) \times 34 = 5.1kg$$

RRB GK Material (Download Pdf)

Question 137

Sachin is younger than Rahul by 4 years. if their ages are in the ratio of 7 : 9, then how old is Sachin ?

- A 14 years
- B 21 years
- C 18 years
- D 25 years

Answer: A

Explanation:

Given that Sachin is younger than Rahul by 4 years. if their ages are in the ratio of 7 : 9

Let's consider rahul's age as x, Then sachin's age would be x-4

Given that $x-4:x=7:9$

$$\Rightarrow 9x-36=7x$$

$$\Rightarrow x=18$$

Therefore, Sachin's age is 14years.

Question 138

Which one of the following instruments will be used for measuring electric current ?

- A Voltmeter
- B Ammeter

- C Ohmmeter
- D Wavemeter

Answer: B

Question 139

If $2^{2n-1} = 8^{n-3}$, then the value of 'n' is:

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

Answer: B

Explanation:

Given that $2^{2n-1} = 8^{n-3}$

$$\Rightarrow 2^{2n-1} = 8^{3-n}$$

$$\Rightarrow 2^{2n-1} = 2^{9-3n}$$

As the bases are equal, their powers are equal

$$\Rightarrow 2n-1 = 9-3n$$

$$\Rightarrow 5n=10$$

$$\Rightarrow n=2$$

RRB NTPC Previous Papers (Download PDF)

Question 140

The length of a bar is L metres. It extends by 2 mm when a tensile force F is applied. Find the strain produced in the bar :

- A $\frac{0.002}{L}$
- B $\frac{2}{L}$
- C $\frac{0.2}{L}$
- D $\frac{L}{0.002}$

Answer: A

Explanation:

$$\text{Strain} = \frac{\text{extension}}{\text{length}}$$

$$= \frac{.002}{L}$$

So, the answer would be option a) $\frac{0.002}{L}$

Question 141

Large scale deforestation decreases :

- A Soil Erosion

- B Rain fall
- C Drought
- D Global warming

Answer: E

Question 142

Zeroth Law of thermodynamics forms the basis of measurement.

- A Pressure
- B Temperature
- C Work
- D Momentum

Answer: B

Join Competitive Exam Updates Telegram Group

Question 143

BOD (Bio Chemical Oxygen Demand) of safe drinking water must be :

- A 0
- B 50 ppm
- C 100 ppm
- D 200 ppm

Answer: A

Question 144

The slenderness ratio of a compression member is :

- A $\frac{\text{Effectivelength}}{\text{Leastradiusofgyration}}$
- B $\frac{\text{Actuallength}}{\text{Momentofinertia}}$
- C $\frac{\text{Momentofinertia}}{\text{Actual length}}$
- D $\frac{\text{Actual length}}{\text{Radiusofgyration}}$

Answer: A

Question 145

Which National Park is known for the 'Asiatic lions' ?

- A Corbett National Park
- B Ka&tha National Park

C Bandipur National Park

D Gir National Park

Answer: D

RRB NTPC Free Mock Tests

Question 146

In which of the following movement did Gandhiji make the first use of Hunger Strike as a weapon?

A Ahmedabad strike, 1918

B Rowlatt Satyagraha, 1919

C Swadeshi Movement, 1905

D Champaran Satyagraha, 1917

Answer: A

Question 147

Find the simple interest on ₹ 4800 at the rate of $8\frac{1}{2}\%$ per annum for a period of 2 years 3 months.

A ₹ 796

B ₹ 816

C ₹ 918

D ₹ 990

Answer: C

Explanation:

Given that $P = 4800$, $T = 2.25$, $R = 8.5$

We know that Simple Interest $I = \frac{PTR}{100}$

Therefore, $I = \frac{4800 \times 2.25 \times 8.5}{100}$

$\Rightarrow I = \frac{91800}{100} = \text{Rs}918/-$

Question 148

Global warming is caused by

A N_2

B CO_2

C Ozone

D None of these

Answer: E

RRB JE Previous Papers (Download Pdf)

Question 149

How many terms are there in the following series ?

201, 208, 215,.....,369

A 26

B 25

C 24

D 23

Answer: B

Explanation:

Here last term $l=369$, first term $a= 201$, difference $d=7$

We know that last term $t_n = a + (n-1)d$

$$\Rightarrow 369 = 201 + (n-1)7$$

$$\Rightarrow 168 = (n-1)7$$

$$\Rightarrow n-1 = 24$$

$$\Rightarrow n=25$$

Therefore, Option B is the right choice.

Question 150

The Indian Standard Time (I.S.T.) is ahead of Greenwich Mean time by:

A 6 hours

B 5 hours

C 6 hours 30 minutess

D 5 hours 30 minutes

Answer: D

RRB JE Free Mock Test

RRB NTPC Free Mock Tests

RRB JE Previous Papers (Download Pdf)

RRB JE Free Mock Test

Daily Free RRB Online Tesrt

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