



RRB 2008 Kolkata

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Instructions

For the following questions answer them individually

Question 1

The chemical bond in germanium crystal is

- A Metallic
- B Covalent
- C Electro - valent
- D Vaan der walls

Answer: B

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Question 2

A ball is thrown upward in vacuum at 49 m/sec. The time taken by the ball to reach the highest point is

- A 2.5 Seconds
- B 7.5 Seconds
- C 5 Seconds
- D 15 Seconds

Answer: C

Explanation:

initial velocity= $u=49$ m/s

final velocity= $v=0$ m/s

acceleration due to gravity= $g=-9.8$ m/s²

we know, $v=u + gt$

$\Rightarrow t=-u/g$

$t=5$ s

Question 3

The majority charge carriers in p - type semi conductors are

- A Electrons
- B Holes
- C Both Electrons and Holes
- D None of these

Answer: B

Question 4

A body is projected at angle θ with the horizontal, time of flight is given by

A $\frac{u \sin \theta}{g}$

B $\frac{24 \sin \theta}{g}$

C $\frac{2u \sin \theta}{g}$

D $\frac{4^2 \sin \theta}{g}$

Answer: C

Explanation:

If a body is projected at angle θ with the horizontal at an initial velocity u , then

time of flight = $\frac{2u \sin \theta}{g}$ where g is the acceleration due to gravity

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Question 5

If the distance between two masses be doubled, the gravitational force of attraction between them will be

A Doubled

B Four Times

C Halved

D One - Fourth

Answer: D

Question 6

The ratio the length and the breadth of a rectangle is 4 : 3. The area of the rectangle is 192 cm^2 . What will be its perimeter ?

A 56 cm

B 46 cm

C 28 cm

D 36 cm

Answer: A

Explanation:

Given, $l/b=3/4 \dots (1)$

$l \times b=192 \dots (2)$

On solving (1) and (2) we get, $l=16$ and $b=12$

Thus perimeter = $2(l + b) = 2(16 + 12) = 56 \text{ cm}$

Question 7

A force provides an acceleration of 0.5 m/sec^2 to a body of mass 2 kg. What acceleration will it produce when acting on a body of mass 10 kg ?

A 0.1 m/sec^2

- B 0.2 m/sec^2
- C 0.5 m/sec^2
- D 1.0 m/sec^2

Answer: A

Explanation:

$$f = m \times a; 2 \times 5 = 1 \text{ N}$$

if $m = 10$ then,

$$a = \frac{f}{m} = \frac{1}{10} = 0.1 \text{ m/sec}^2$$

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Question 8

The cathode rays are

- A Streams of electrons
- B Streams of positively charged particles
- C Streams of neutral particles
- D Electromagnetic Waves

Answer: A

Question 9

In the most popular abbreviation in the field of banking sectors 'CBS'. The letter 'C' stands for

- A Core
- B Credit
- C Complete
- D Continent

Answer: A

Question 10

Which group of inhabitants is tagged to be connected by seasonal roads during 2008-09 ?

- A Population of 1000 to 2000
- B Population of 5000 to 10000
- C Population of 500 to 1000
- D Population of 2500 to 5000

Answer: C

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Question 11

Which of the following economists has been conferred with Nobel Prize ?

- A G. Swaminathan
- B Amartya sen
- C M.L. Seth
- D R. Lingaswamy

Answer: B

Question 12

In notation <http://www.prenhall.com>. http stands for

- A Host
- B Region
- C Pre - Contact
- D Set of rules (Hypertext Transfer Protocol)

Answer: D

Question 13

During a period of time you see so many websites and pages exhibited by

- A Status Bar
- B History List
- C Task Bar
- D Tool Bar

Answer: C

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Question 14

Where does the digestive and respiratory routes encroach each other

- A Trachea
- B Food Canal
- C Respiratory Tube
- D Vocal Cord

Answer: A

Question 15

The state government gets maximum revenue from

- A Sales Tax
- B Corporate Tax
- C Excise Duty
- D Custom Duty

Answer: A

Question 16

On internet no change in no charge the repair of generally known software, bug, is called

- A Version
- B Patch
- C Tutorial
- D Faq

Answer: B

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Question 17

Maria Sharapova won Australian Open Tennis 2008 by defeating

- A Victoria Azarenka
- B Alana Bondarenko
- C Ana Ivanovic
- D Kateryna Bondarenko

Answer: C

Question 18

The planning commission of India has formed a 12 - member committee for reforms in financial sectors. The chairman of this committee is

- A Janaki Ramana
- B Rakesh Mohan
- C Raghuram Rajan
- D K.V. Kamath

Answer: A

Question 19

The thickness of troposphere can increase during

- A Winter

- B Summer
- C Spring
- D None of these

Answer: B

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Question 20

The lightest gas in the atmosphere is

- A Hydrogen
- B Nitrogen
- C Oxygen
- D None of these

Answer: A

Question 21

White phosphorus is stored in

- A Water
- B Sulphuric Acid
- C Alcohol
- D Kerosene

Answer: A

Question 22

Find the least number by which 8640 is divided and the quotient obtained becomes a perfect cube.

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

Answer: B

Explanation:

$$8640 = 12^3 \times 5$$

thus, if 8640 is divided by 5, the quotient will be a perfect cube i.e 12^3

\therefore 5 is the correct answer.

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Question 23

Evaluate :- $(-216 \times 1728)^{\frac{1}{3}}$

A -72

B 27

C 72

D -27

Answer: A

Explanation:

$$(-216 \times 1728)^{\frac{1}{3}}$$

$$=(-6^3 \times 12^3)^{\frac{1}{3}}$$

$$=-72$$

Question 24

Which of the following features/provisions did the framers of Indian constitution take from the US constitution ?

A Judicial Review

B Fundamental Rights

C Removal of the judges of supreme court

D All the above

Answer: D

Question 25

The golden period of Indian culture was during

A Rajput Period

B Gupta Period

C Chola Period

D Maurya Period

Answer: B

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Question 26

Artificial dialysis is used in the form of

A Liver Substitution

B Intestine Substitution

C Kidney Substitution

D Abdomen Substitution

Answer: C

Question 27

Evaluate :- $\frac{16 \times 2^{n+1} - 4 \times 2^n}{16 \times 2^{n+2} - 2 \times 2^{n+2}}$

- A $\frac{1}{2}$
- B 0
- C 4
- D $\frac{1}{3}$

Answer: A

Explanation:

$$\frac{16 \times 2^{n+1} - 4 \times 2^n}{16 \times 2^{n+2} - 2 \times 2^{n+2}}$$

$$= \frac{2^n(32-4)}{2^{n+2}(16-2)}$$

$$= \frac{28}{4(14)} = \frac{1}{2}$$

Question 28

If $(25)^{x-3} = (125)^{2x-3}$, then x is equal to

- A $\frac{2}{3}$
- B $\frac{3}{2}$
- C $\frac{3}{4}$
- D $\frac{1}{4}$

Answer: C

Explanation:

$$(25)^{x-3} = (125)^{2x-3}$$

$$= (5)^{2(x-3)} = (5)^{3(2x-3)}$$

equating the powers we get,

$$2x - 6 = 6x - 9$$

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

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Question 29

$$\frac{9x^2 - 24xy + 16y^2}{3x - 4y} = ?$$

- A $3x+4y$
- B $3x-4y$
- C $4x+3y$

D $4x-3y$

Answer: B

Explanation:

$$\frac{9x^2 - 24xy + 16y^2}{3x - 4y}$$

$$= \frac{(3x-4y)^2}{3x-4y} = 3x - 4y$$

Question 30

When polynomial $x^4 - 3x^2 + 2x + 5$ is divided by $(x-1)$, the remainder is

A 2

B 3

C 4

D 5

Answer: D

Explanation:

$$f(x) = x^4 - 3x^3 + 2x + 5$$

to find the remainder put $x=1$ in $f(x)$

$$f(1) = 1 - 3 + 2 + 5 = 5$$

$\therefore 5$ is the remainder

Question 31

What will be the ratio of amount and the principal in n years at 5% p.a. rate of compound interest ?

A $(22)^n : (21)^n$

B $(20)^n : (21)^n$

C $(21)^n : (20)^n$

D None of these

Answer: C

Explanation:

amount of compound interest = $A = P(1 + r/100)^t$ where P=Principal, r=rate of interest and t=time

$$\therefore A/P = (1 + .05)^n$$

$$= (21/20)^n$$

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Question 32

A freely suspended bar magnet always remains in the direction

A North - South

B East - West

C South - West

D Not - certain

Answer: A

Instructions

Choose the correct synonym of each of the following words at the question places.

Question 33

Prudent

A Cautious

B Honest

C Polite

D Wise

Answer: A

Explanation:

Prudent means acting with care. Cautious means being careful to avoid problems. Thus, option A is the apt choice.

Question 34

Feeble

A Disable

B Docile

C Weak

D Forceful

Answer: C

Explanation:

Feeble means lacking physical strength. Weak also means lacking physical power. Thus, option C is the right choice.

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Question 35

Coarse

A Haughty

B Fair

C Rough

D Childish

Answer: C

Explanation:

Coarse means harsh. Rough also means the same. So option C is correct. Haughty indicates a behaviour that indicates yourself superior. So option A is wrong. Options B and D are irrelevant to the given word.

Question 36

Calamity

- A Upset
- B Disaster
- C Gloomy
- D Dilemma

Answer: B

Explanation:

An incident that causes a large amount of damage and distress is called a calamity. Disaster also means the same. Hence, B is the correct option.

Question 37

Diligent

- A Moderate
- B Energetic
- C Intelligent
- D Industrious

Answer: D

Explanation:

Diligent means hardworking. Industrious also means hardworking. Therefore, option D is the right answer. Energetic means highly active and is not the same as hardworking, so option B is incorrect.

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Instructions

For the following questions answer them individually

Question 38

The angle subtended at the center of a circle by a major arc will be

- A Right Angle
- B Acute Angle
- C Obtuse Angle
- D Complementary Angle

Answer: C

Question 39

A body dropped from a tower with zero velocity, reaches the ground in 4 seconds. The height of the tower is about

- A 80 m
- B 20 m
- C 160 m
- D 40 m

Answer: A

Question 40

A man in a train moving with a constant velocity drops a ball on platform. The path of the ball as seen by an observer standing on the platform is

- A A Straight Line
- B A Circle
- C A Parabola
- D None of these

Answer: C

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Question 41

Who among the following economists has done pioneering work on national income?

- A Jagadish Bhagwathi
- B M.L. Seth
- C Amartya Sen
- D V.K.R.V Rao

Answer: D

Question 42

Monopoly means

- A Single Buyer
- B Many Sellers
- C Single Seller
- D Many Buyers

Answer: C

Question 43

Who introduced the silver coin called "Taka" or 'Rupia' ?

- A Sher Shah Suri
- B Akbar
- C Timur
- D Humayun

Answer: A

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Question 44

What is the International Date Line ?

- A Equator
- B Longitude
- C 90° East Longitude
- D 180° East Longitude

Answer: D

Question 45

The lines joining places experiencing a thunder storm at the same time is known as

- A Isohyets
- B Isochrones
- C Isobronts
- D Isophenes

Answer: C

Question 46

When a metal is heated, its resistance

- A Decreases
- B Increases
- C May increase or Decrease
- D Remains Constant

Answer: B

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Question 47

The resistance of a wire of length 20 cm is 5 Ω , it is stretched uniformly to a length of 40cm, The resistance now becomes

- A 5 Ω
- B 10 Ω
- C 20 Ω
- D 200 Ω

Answer: C

Question 48

Which among the following is an air to ground missile ?

- A Nag
- B Aakash
- C Agni
- D Prithvi

Answer: A

Question 49

Which of the following countries is not a permanent member of UN Security Council?

- A The US
- B The UK
- C France
- D Spain

Answer: D

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Question 50

Which of the following is not a Navaratna PSU ?

- A SAIL
- B BHEL
- C NTPC
- D Bank of India

Answer: D

Question 51

The profit earned after selling an article for Rs. 878 is the same as loss incurred after selling the article for Rs. 636. What is the cost price of the article ?

- A Rs. 797
- B Rs. 787
- C Rs. 767
- D Rs. 757

Answer: D

Explanation:

Let the cost price of the article be x Rs. Profit earned by selling it at 878 = $878 - x$

Loss incurred by selling the article for 636 = $x - 636$

But profit earned = loss incurred

So, $878 - x = x - 636$

So, $x = 757$

Question 52

The ages of Khushi and Jagriti are in the ratio 5 : 8. After 8 years the ratio of their ages will be 3 : 4. What is the difference in their ages ?

A 16 Years

B 8 Years

C 6 Years

D 10 Years

Answer: C

Explanation:

Let their ages be $5x$ and $8x$. After 8 years, their ages are $5x + 8$ and $8x + 8$. But $5x+8:8x+8 = 3:4$

Solving for x , we get $x = 2$

So, difference of ages = $8x - 5x = 3x = 6$ years

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Question 53

In how many different ways can the letters of the word "PUNCTUAL" be arranged ?

A 64

B 40320

C 690

D 20160

Answer: D

Explanation:

There are 8 letters in PUNCTUAL of which 7 are unique. There are 2 Us. So, the number of ways they can be arranged = $\frac{8!}{2!} = 20160$

Question 54

Mohan decides to attend to some urgent work on a particular day in the month of August 2008. What is the probability that the day chosen by Mohan to attend to his work is a Saturday ?

A $\frac{6}{31}$

B $\frac{5}{31}$

C $\frac{2}{15}$

D $\frac{1}{6}$

Answer: B

Explanation:

There are 31 days in August and there are 5 Saturdays in them.

So, the probability of working on a Saturday = $\frac{5}{31}$

Question 55

While selling a watch, a shopkeeper gives a discount of 15%. If he gives a discount of 20% he earns Rs.51 less a profit. What is the original price of the watch ?

- A Rs. 920
- B Rs. 985
- C Rs. 1,125
- D Rs. 1,020

Answer: D

Explanation:

Let the marked price of the watch be MP. So the selling price = .85 MP

Profit = .85 MP - CP

If the discount = 20%, selling price = .8 MP

Profit = .8 MP - CP

But (.85MP - CP) - (.8MP - CP) = 51

So, .05 MP = 51

or MP = 1020

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Question 56

The length, breadth and height of a school auditorium are 10 m, 30 m and 10 m respectively. The density of air is 1.3 kg per cubic metre, the mass of the air inside the auditorium is

- A 39 kg
- B 390 kg
- C 3900 kg
- D 39000 kg

Answer: C

Explanation:

Given, density of air = 1.3 kg/m³

Volume of the auditorium = l x b x h = 3000 m³

Mass inside auditorium = density x volume = 1.3 x 3000 = 3900 kg

Question 57

The mushroom which we eat as vegetable is a/an

- A Algae
- B Fungus

- C Fern
- D Moss

Answer: B

Question 58

If the numerator of a fraction is increased by 300% and the denominator is increased by 500%, the resultant fraction is $\frac{5}{12}$. What was the original fraction ?

- A $\frac{25}{36}$
- B $\frac{5}{11}$
- C $\frac{11}{5}$
- D $\frac{12}{5}$

Answer: A

Explanation:

Let the original fraction be $\frac{x}{y}$. New fraction is 300% of numerator and 500% of denominator ie $\frac{3x}{5y}$

But $\frac{3x}{5y} = \frac{5}{12}$. So, $\frac{x}{y} = \frac{25}{36}$

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Question 59

12 men can do a piece of work in 10 days. How many men would be required to do the same work in 8 days ?

- A 14
- B 18
- C 16
- D 15

Answer: D

Explanation:

12 men can do a work in 10 days

How many men are needed to complete the work in 8 days

$$= 12 \times 10 / 8 = 15$$

Question 60

Monazite is an Ore of

- A Gerconium
- B Titanium
- C Iron
- D Thorium

Answer: D

Question 61

The god of the konark temple in Orissa is

- A Sun
- B Shiva
- C Krishna
- D Brahma

Answer: A

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Question 62

In the following the spice obtained from the root is

- A Turmeric
- B Clove
- C Linseed
- D None of these

Answer: D

Question 63

The first Women Prime Minister in the world was

- A Indira Gandhi
- B S. Bhndarnaik
- C Arundati Rai
- D M. Linsde

Answer: B

Question 64

The model of DNA structure was founded by

- A Priestley
- B Morgan
- C Hargobind Khurana
- D Watson and Crick

Answer: D

Question 65

Vitamin E is chiefly found in

- A Pulses
- B Butter
- C Germinated Grains
- D Oil of liver of fishes

Answer: B

Question 66

Which article of the Indian Constitution directs the State Government to form a Village Panchayat ?

- A Article 40
- B Article 32
- C Article 48
- D Article 78

Answer: A

Question 67

Which of the following Grand Slams is played on grass courts ?

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

Answer: B

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Question 68

Which of the following medicines is used in the treatment of typhoid ?

- A Sulfa drugs
- B Vitamin A
- C Chloroquin
- D Chloromycetin

Answer: D

Question 69

Urea is a

- A Sodium fertilizer
- B Phosphorus fertilizer
- C Potassium fertilizer
- D Nitrogen fertilizer

Answer: D

Question 70

Archipelago is a

- A Plateau
- B Island
- C Lake
- D Mountain

Answer: B

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Question 71

For photosynthesis, energy is obtained from

- A Sunlight
- B Water
- C Chlorophyll
- D Vitamin

Answer: A

Question 72

We see sun before actual sunrise or after sunset due to

- A Reflection
- B Scattering
- C Refraction
- D Diffraction

Answer: C

Question 73

Who started the Saka Era ?

- A Kanishka
- B Vikramaditya

- C Ashoka
- D None of these

Answer: A



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Question 74

A sector of a circle subtending angle 36° has an area 3.85 cm^2 . The length of the arc is

- A 2.2 cm
- B 2.5 cm
- C 2.7 cm
- D None of these

Answer: A

Explanation:

The area of the arc = $\frac{36}{360} * \pi * r^2 = 3.85$

Solving, we get $r = 3.5$

Length of the arc = $\frac{36}{360} * 2 * \pi * r = 2.2$

Question 75

The dimensions of energy are

- A ML^2T^{-2}
- B ML^2T^{-3}
- C $ML^{-1}T^{-2}$
- D $M^0L^0T^4$

Answer: A

Question 76

The Vector quantity is

- A Pressure
- B Angular momentum
- C Work
- D Power

Answer: B

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Question 77

The maximum number of electrons in the second orbit of an element is

- A 8
- B 32
- C 18
- D 2

Answer: A

Question 78

Saina Nehwal is related to?

- A Tennis
- B Badminton
- C Table tennis
- D None of these

Answer: B

Question 79

Dolomite is an Ore of

- A Zinc
- B Lead
- C Iron
- D Magnesium

Answer: D

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Question 80

The permeability in free space is equal to

- A $4\pi \times 10^{-7}$ wb/Am
- B $4\pi \times 10^7$ wb/Am
- C $4\pi \times 10^7$ wb/Am
- D $4\pi \times 10^{-7}$ wb/Am

Answer: D

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