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Post Name: Paper - II

Mathematics - Mathematics

Question No.1

Marks: 1.00

Bookmark

An article is bought for Rs.29000 and sold at a loss of 25%. Find its selling price.(in Rs)

- (A) 28150
(B) 26150
(C) 29150
(D) 27150 (Correct Answer) (Chosen option)

Question No.2

Marks: 1.00

Bookmark

Find the smallest number by which 2058 must be multiplied to obtain a perfect cube.

- (A) 38
(B) 36 (Correct Answer) (Chosen option)
(C) 34
(D) 40

Question No.3

Marks: 1.00

Bookmark

Find the simple interest on Rs.5800 at 5% per annum for 8 years.(in Rs)

- (A) 2520
(B) 2320 (Correct Answer) (Chosen option)
(C) 2220
(D) 2420

Question No.4

Marks: 1.00

Bookmark

The average weight of 56 bags in a godown is 160.5 kg and that of the remaining 24 bags is 45 kg. Find the average weight of all the bags in the godown.(in kg - rounding off to two decimals)

- (A) 135.85
(B) 115.85
(C) 95.85
(D) 125.85 (Correct Answer) (Chosen option)

Question No.5

Marks: 1.00

Bookmark

Let's consider the data:

45, 43, 28, 39, 43, 53, 41, 47, 38

What is the median?

- (A) 41
(B) 45
(C) 47
(D) 43 (Correct Answer) (Chosen option)

Question No.6

Marks: 1.00

Bookmark

A right angled triangle has a height 'a = 150 cm', base 'b = 200 cm' and hypotenuse 'c'. Find the value of c. (In cm)

- (A) 240
(B) 270
(C) 260
(D) 250 (Correct Answer) (Chosen option)

Question No.7

Marks: 1.00

Bookmark

The salaries of A, B and C are in the ratio of 8:15:7. If their total salary is Rs.3990, find the salary received by C.(in Rs)

- (A) 941
(B) 961
(C) 951
(D) 931 (Correct Answer) (Chosen option)

Question No.8

Marks: 1.00

Bookmark

Find the unit digit in the product $(621 \times 735 \times 4297 \times 5313)$.

- (A) 4
(B) 6
(C) 5 (Correct Answer) (Chosen option)
(D) 7

Question No.9

Marks: 1.00

Bookmark

A dealer bought a washing machine for Rs.18500 and sold at a gain of 25%. Find its selling price.(in Rs)

- (A) 23125 (Correct Answer) (Chosen option)
(B) 24125
(C) 22125
(D) 25125

Question No.10

Marks: 1.00

Bookmark

Find the sum invested at compound interest at 10% per annum which will amount to Rs.2904 in 2 years.

- (A) 2200
(B) 2300 (Chosen option)
(C) 2500
(D) 2400 (Correct Answer)

Question No.11

Marks: 1.00

Bookmark

At the end of two years what will be the compound interest at the rate of 10% p.a. on an amount of Rs.6400?

- (A) 1244
(B) 1444
(C) 1344 (Correct Answer) (Chosen option)
(D) 1144

Question No.12

Marks: 1.00

Bookmark

Find the remainder, when 644478 is divided by 9.

- (A) 8
(B) 4
(C) 6 (Correct Answer) (Chosen option)
(D) 10

Question No.13

Marks: 1.00

Bookmark

In a moderately asymmetrical series, the values of arithmetic mean and median are 47 and 43.5. What is the value of the mode?

- (A) 34.5
(B) 36.5 (Correct Answer) (Chosen option)
(C) 32.5
(D) 38.5

Question No.14

Marks: 1.00

Bookmark

Which of the following is divisible by 3?

- (A) 368745
(B) 368835
(C) 378735 (Correct Answer) (Chosen option)
(D) 368735

Question No.15

Marks: 1.00

Bookmark

Which of the following numbers is divisible by 12?

- (A) 38764
(B) 39764
(C) 37764 (Correct Answer) (Chosen option)
(D) 36764

Question No.16

Marks: 1.00

Bookmark

If $a = 39$ and $b = 25$, then find the value of $a^2 - b^2$.

- (A) 886
(B) 916
(C) 906
(D) 896 (Correct Answer) (Chosen option)

Question No.17

Marks: 1.00

Bookmark

Find the value of $a^2 + b^2$, given $(a+b)^2 = 5476$ and $ab = 1368$.

- (A) 2940
(B) 2740 (Correct Answer) (Chosen option)
(C) 2840
(D) 2640

Question No.18

Marks: 1.00

Bookmark

The LCM of two numbers is 252 and their H.C.F is 6, find the product of two numbers.

- (A) 1712
(B) 1812
(C) 1612
(D) 1512 (Correct Answer) (Chosen option)

Question No.19

Marks: 1.00

Bookmark

Find the cube root of 21952 by prime factorisation method.

- (A) 30
(B) 34
(C) 28 (Correct Answer) (Chosen option)
(D) 32

Question No.20

Marks: 1.00

Bookmark

Which of the following is a perfect cube?

- (A) 4713
(B) 4913 (Correct Answer) (Chosen option)
(C) 4813
(D) 4613

Question No.21

Marks: 1.00

Bookmark

Find the LCM of $34/35$ and $35/36$.

- (A) 1290
(B) 1090

- (C) 1390
(D) **1190 (Correct Answer)** (Chosen option)

Question No.22

Marks: 1.00

Bookmark

A number when divided by 28, 42 and 56, leaves the remainder 11 in each case. Find the smallest possible number.

- (A) 169
(B) **179 (Correct Answer)** (Chosen option)
(C) 189
(D) 199

Question No.23

Marks: 1.00

Bookmark

By selling a table for Rs.2700, a shopkeeper loses 10%. At what price should he sell it to gain 10%?(in Rs.)

- (A) 3400
(B) **3300 (Correct Answer)** (Chosen option)
(C) 3600
(D) 3500

Question No.24

Marks: 1.00

Bookmark

A, B and C invested Rs.7650, Rs.6120 and Rs.4590 respectively, in a partnership business. Find the share of A in profit of Rs.3180 after a year. (In Rs.)

- (A) **1325 (Correct Answer)** (Chosen option)
(B) 1525
(C) 1425
(D) 1225

Question No.25

Marks: 1.00

Bookmark

The average weight of 26 box in a boat is 86 kg, it gets increased by 1 kg when a new box is added to the boat. Find the weight of the new box.(in kg)

- (A) **113 (Correct Answer)** (Chosen option)
(B) 117
(C) 111
(D) 115

Question No.26

Marks: 1.00

Bookmark

If the mean of numbers 60, 74, 110, 136 and X is 92, what is the mean of 80, 94, 130, 156 and x?

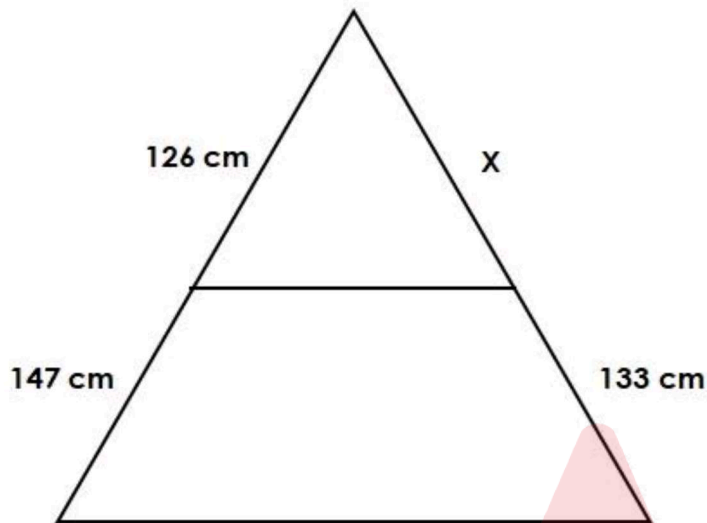
- (A) 112
(B) 110
(C) 114
(D) **108 (Correct Answer)** (Chosen option)

Question No.27

Marks: 1.00

Bookmark

From the given figure find X. (In cm)



- (A) 114 (Correct Answer) (Chosen option)
(B) 134
(C) 144
(D) 124

Question No.28

Marks: 1.00

Bookmark

If 75% of a number is added to 375, then the result is the number itself. Find the number.

- (A) 1700
(B) 1600
(C) 1400
(D) 1500 (Correct Answer) (Chosen option)

Question No.29

Marks: 1.00

Bookmark

Find the smallest square number that is divisible by each of the numbers 9, 14 and 18.

- (A) 1964
(B) 1864
(C) 1764 (Correct Answer) (Chosen option)
(D) 1664

Question No.30

Marks: 1.00

Bookmark

X began business with Rs.88000 and was joined afterwards by Y with Rs.55000. Find after how many months did Y join, if the profits at the end of the year were divided in the ratio of 12:5.

- (A) 6
(B) 4 (Correct Answer)
(C) 8 (Chosen option)
(D) 10

Question No.31

Marks: 1.00

Bookmark

Find the greatest three digit number which is divisible by 15, 45 and 60.

- (A) 870
(B) 900 (Correct Answer) (Chosen option)
(C) 890
(D) 880

Question No.32

Marks: 1.00

Bookmark

If $14a=15b$ and $13b=14c$, find a:b:c.

- (A) 16:14:13
(B) 15:14:13 (Correct Answer) (Chosen option)
(C) 18:14:13
(D) 17:14:13

Question No.33

Marks: 1.00

Bookmark

Find the value of a^3+b^3 , given that $3a^2b+3ab^2=24576$ and $a+b=32$.

- (A) 8392
(B) 8492
(C) 8192 (Correct Answer) (Chosen option)
(D) 8292

Question No.34

Marks: 1.00

Bookmark

Given $a^2-b^2=3393$ and $a+b=261$, then find the value of a-b.

- (A) 11
(B) 17
(C) 13 (Correct Answer) (Chosen option)
(D) 15

Question No.35

Marks: 1.00

Bookmark

If 25% of a certain number is 1900, then what is 85% of that number?

- (A) 6760
(B) 6560
(C) 6460 (Correct Answer) (Chosen option)

(D) 6660

Question No.36

Marks: 1.00

Bookmark

A mobile is bought for Rs.4500 and sold at Rs.5625. Find the gain percentage.

- (A) 25 (Correct Answer) (Chosen option)
(B) 27
(C) 23
(D) 29

Question No.37

Marks: 1.00

Bookmark

If the sum of the measure of the interior angle of polygon is 8100, find the number of sides of the polygon.

- (A) 47 (Correct Answer) (Chosen option)
(B) 49
(C) 43
(D) 45

Question No.38

Marks: 1.00

Bookmark

Find the least number with which you would divide 17672, to get a perfect square.

- (A) 6
(B) 2 (Correct Answer) (Chosen option)
(C) 8
(D) 4

Question No.39

Marks: 1.00

Bookmark

A, B, C together started a business. A invested Rs.6400 for 5 months, B invested Rs.7400 for 4 months and C Rs.8400 for 3 months. If they get a total profit of Rs.13020. Find the share of A. (In Rs.)

- (A) 4700
(B) 5000
(C) 4900
(D) 4800 (Correct Answer) (Chosen option)

Question No.40

Marks: 1.00

Bookmark

The ratio of two numbers is 6:7 and their sum is 507. Find the greater of the two numbers.

- (A) 263
(B) 273 (Correct Answer) (Chosen option)
(C) 283
(D) 293

Question No.41

Marks: 1.00

Bookmark

24025 plants are to be planted in a garden in such a way that each row contains as many plants as the number of rows. Find the number of rows and the number of plants in each row

- (A) 145
(B) 165
(C) 175
(D) **155 (Correct Answer)** (Chosen option)

Question No.42

Marks: 1.00

Bookmark

A sum of money at simple interest amounts to Rs.5500 in 1 years and to Rs.6600 in 2 years. Find the sum.(in Rs)

- (A) 4300
(B) 4100
(C) **4400 (Correct Answer)** (Chosen option)
(D) 4200

Question No.43

Marks: 1.00

Bookmark

From a point X on a level ground, the angle of elevation of the top tower is 45° . If the tower is 1692 m high, find the distance of point X from the foot of the tower.(in m and use $\sqrt{2} = 1.41$)

- (A) 1492
(B) 1792
(C) **1692 (Correct Answer)** (Chosen option)
(D) 1592

Question No.44

Marks: 1.00

Bookmark

Two supplementary angles are in the ratio 7:8. Find the larger angle measures. (In degree)

- (A) **96 (Correct Answer)** (Chosen option)
(B) 94
(C) 98
(D) 92

Question No.45

Marks: 1.00

Bookmark

Find the mode.

75, 83, 67, 75, 71, 79, 71, 79, 78, 75

- (A) 73
(B) 79
(C) **75 (Correct Answer)** (Chosen option)
(D) 77

Question No.46

Marks: 1.00

Bookmark

What value will come in the place of question mark(?) in the following equation?

$$\sqrt{6724} + \sqrt{4489} = ?$$

- (A) 159
(B) 129
(C) 139
(D) **149 (Correct Answer)** (Chosen option)

Question No.47

Marks: 1.00

Bookmark

The ratio of three numbers is 15:16:17 and their sum is 2160. Find the second number of the three numbers.

- (A) 740
(B) **720 (Correct Answer)** (Chosen option)
(C) 710
(D) 730

Question No.48

Marks: 1.00

Bookmark

From a point X on a level ground, the angle of elevation of the top tower is 60° . If the distance between top of the tower and the point X is 1800 m, find the height of the tower. (in m and use $\sqrt{3} = 1.73$)

- (A) 1457
(B) 1757
(C) 1657
(D) **1557 (Correct Answer)** (Chosen option)

Question No.49

Marks: 1.00

Bookmark

A and B invest in a business in the ratio 3:2. If 20% of the total profit goes to charity and A's share is Rs. 1344, find the total profit. (In Rs.)

- (A) 2900
(B) 2700
(C) **2800 (Correct Answer)** (Chosen option)
(D) 3000

Question No.50

Marks: 1.00

Bookmark

Find the smallest number by which 34560 must be divided to obtain a perfect cube.

- (A) **20 (Correct Answer)** (Chosen option)
(B) 22
(C) 18
(D) 24

General Science - General Science**Question No.1**

Marks: 1.00

Bookmark

The buffering action of acidic buffer is maximum when its pH is equal to_____

- (A) 10
(B) 5
(C) **Pk_a (Correct Answer)**
(D) 7 (Chosen option)

Question No.2

Marks: 1.00

Bookmark

Addition of small amounts of B to Ge produces _____.

- (A) graphite-like conductor
(B) **extrinsic semiconductor (Correct Answer)** (Chosen option)
(C) a metal-like conductor
(D) intrinsic semiconductor

Question No.3

Marks: 1.00

Bookmark

On heating acetaldehyde with iodine solution and sodium hydroxide, yellow crystals of iodoform are formed. This reaction is called _____.

- (A) chloroform reaction
(B) **iodoform reaction (Correct Answer)** (Chosen option)
(C) Cannizzaro's reaction
(D) None of the above

Question No.4

Marks: 1.00

Bookmark

Which among the following is an example of an electrical semiconductor?

- (A) Copper
(B) **Gallium arsenide (Correct Answer)** (Chosen option)
(C) Graphite
(D) Aluminium

Question No.5

Marks: 1.00

Bookmark

Car A travels at 36 km/hr while two cars B and C approach car A in opposite directions at 54 km/hr each. When the distance $AB = AC = 1$ km, car B decides to overtake car A before car C does it. What is the minimum acceleration of car B required to avoid an accident?

- (A) **1 m/s^2 (Correct Answer)**
(B) 10 m/s^2
(C) 5 m/s^2
(D) 50 m/s^2

Question No.6

Marks: 1.00

Bookmark

Which among the following is the first genetic material?

- (A) Cellulose

- (B) Mitochondria
(C) Deoxyribonucleic Acid (Chosen option)
(D) Ribonucleic Acid (Correct Answer)

Question No.7

Marks: 1.00

Bookmark

Where does the breakdown of pyruvate using oxygen take place?

- (A) Food Vacuole
(B) Cytoplasm
(C) Cell Wall
(D) Mitochondria (Correct Answer) (Chosen option)

Question No.8

Marks: 1.00

Bookmark

An element common to all acids is _____.

- (A) Nitrogen
(B) Hydrogen (Correct Answer) (Chosen option)
(C) Chlorine
(D) Oxygen

Question No.9

Marks: 1.00

Bookmark

What is the Critical angle of Water with respect to the air that has a refractive index of 1.33?

- (A) 28.75
(B) 48.75 (Correct Answer)
(C) 68.75
(D) 38.75

Question No.10

Marks: 1.00

Bookmark

Based on Archimedes Principle, for totally immersed objects, what is the volume of the fluid displaced by the object?

- (A) Greater than its own volume
(B) Less than its own volume (Chosen option)
(C) Equal to its own volume (Correct Answer)
(D) Depends on the fluid

Question No.11

Marks: 1.00

Bookmark

What does the work done by a conservative force such as gravity depend upon?

- (A) Initial and Final positions (Correct Answer)
(B) Path taken by the object
(C) Mass of the body
(D) Acceleration of the body (Chosen option)

Question No.12

Marks: 1.00

Bookmark

Which part connects the two hemispheres of the brain?

- (A) Subthalamus
(B) Hypothalamus (Chosen option)
(C) **Corpus callosum (Correct Answer)**
(D) Thalamus

Question No.13

Marks: 1.00

Bookmark

Among these, which attribute tells us about loudness or softness of a sound?

- (A) Wavelength
(B) Pitch
(C) **Amplitude (Correct Answer)** (Chosen option)
(D) Frequency

Question No.14

Marks: 1.00

Bookmark

What is the value of Avogadro's number?

- (A) **$6.022 \times 10^{23} \text{ mol}^{-1}$ (Correct Answer)**
(B) $1.38 \times 10^{-23} \text{ mol}^{-1}$ (Chosen option)
(C) $9.109 \times 10^{-31} \text{ mol}^{-1}$
(D) $1.602 \times 10^{-19} \text{ mol}^{-1}$

Question No.15

Marks: 1.00

Bookmark

Which of the following is called secondary meristem?

- (A) Shoot apical
(B) Intercalary meristem
(C) **Cork-cambium (Correct Answer)**
(D) Apical meristem (Chosen option)

Question No.16

Marks: 1.00

Bookmark

What is 1Torr of pressure equivalent to?

- (A) 10 cm of mercury
(B) 1 cm of mercury
(C) **1 mm of mercury (Correct Answer)**
(D) 5 mm of mercury

Question No.17

Marks: 1.00

Bookmark

How many electrons are present in the hydrogen atom?

- (A) 2
(B) **1 (Correct Answer)** (Chosen option)
(C) 0

(D) 3

Question No.18

Marks: 1.00

Bookmark

The seed of groundnut is called _____.

- (A) Haulm
(B) Earhead
(C) Grain
(D) **Kernel (Correct Answer)**

Question No.19

Marks: 1.00

Bookmark

By which of the following reactions phenol is converted into salicylaldehyde?

- (A) Cannizzaro Reaction
(B) **Reimer-Tiemann Reaction (Correct Answer)**
(C) Kolbe Reaction
(D) Haloform Reaction

Question No.20

Marks: 1.00

Bookmark

Shade loving plants are called _____.

- (A) Heliophytes
(B) Thalophytes
(C) Halophytes
(D) **Sciophytes (Correct Answer) (Chosen option)**

Question No.21

Marks: 1.00

Bookmark

What is the coordination number of face centered cubic structure?

- (A) **12 (Correct Answer)**
(B) 4
(C) 8
(D) 6

Question No.22

Marks: 1.00

Bookmark

Which of the following relations is right when resistors are in Parallel arrangement in a circuit?

- (A) $1/V = 1/V_1 + 1/V_2 + 1/V_3$
(B) **$1/R = 1/R_1 + 1/R_2 + 1/R_3$ (Correct Answer) (Chosen option)**
(C) $1/I = 1/I_1 + 1/I_2 + 1/I_3$
(D) $R=R_1 + R_2 + R_3$

Question No.23

Marks: 1.00

Bookmark

Which of the following hormones regulates the basal metabolic rate?

- (A) Peptide Hormone
(B) **Thyroid Hormones (Correct Answer)** (Chosen option)
(C) Vasopressin Hormone
(D) Oxytocin Hormone

Question No.24

Marks: 1.00

Bookmark

Poor man's friend crop is known as _____.

- (A) Cumbu
(B) Tapioca
(C) Rice
(D) **Potato (Correct Answer)**

Question No.25

Marks: 1.00

Bookmark

Work done by a force in the direction of displacement can be defined as the product of _____.

- (A) Force and Momentum
(B) Force and Weight
(C) Force and Mass
(D) **Force and Displacement (Correct Answer)** (Chosen option)

Question No.26

Marks: 1.00

Bookmark

As per the French mathematician Bravais what is the maximum possible three dimensional lattices?

- (A) 6
(B) 16
(C) **14 (Correct Answer)**
(D) 9

Question No.27

Marks: 1.00

Bookmark

Rate of change of momentum of a body is a result of the _____ acting on that body.

- (A) Energy
(B) **Net Force (Correct Answer)** (Chosen option)
(C) Friction
(D) Velocity

Question No.28

Marks: 1.00

Bookmark

Where can a far sighted vision defective person place a reading material from the eyes for a comfortable reading?

- (A) **Beyond 25 cm (Correct Answer)** (Chosen option)
(B) 20 cm to 25 cm
(C) Less than 12 cm

(D) 12 cm to 25 cm

Question No.29

Marks: 1.00

Bookmark

Which of the following contains information on one taxon only?

- (A) Couplets
(B) Catalogs
(C) Manuals
(D) **Monographs (Correct Answer)**

Question No.30

Marks: 1.00

Bookmark

How many sodium ions get transported outside for every two Potassium getting into the cell?

- (A) Two (Chosen option)
(B) Four
(C) Five
(D) **Three (Correct Answer)**

Question No.31

Marks: 1.00

Bookmark

Which of the following structures has the least packing efficiency?

- (A) Body centred Cubic Structure
(B) **Simple Cubic Structure (Correct Answer)**
(C) Hexagonal Closed Packed Structure
(D) Cubic Closed Packed Structure

Question No.32

Marks: 1.00

Bookmark

Which physical phenomenon is observed when sunlight passes through a canopy of a dense forest wherein tiny water droplets in the mist scatter light?

- (A) Seismic reflection
(B) **Tyndall effect (Correct Answer) (Chosen option)**
(C) Total internal reflection
(D) Wave transmission

Question No.33

Marks: 1.00

Bookmark

When two reactants A and B are mixed to give products C and D, the reaction quotient Q at the initial stages of reaction _____.

- (A) is zero
(B) is independent of time
(C) decreases with time
(D) **increases with time (Correct Answer)**

Question No.34

Marks: 1.00

Bookmark

What is the molecular formula of sugar?

- (A) C_2H_5COOH
(B) CH_3CHO
(C) C_6H_5OH
(D) $C_{12}H_{22}O_{11}$ (Correct Answer) (Chosen option)

Question No.35

Marks: 1.00

Bookmark

The botanical name of Finger Millet/Ragi is _____.

- (A) Triticum spp
(B) Pennisetum typhoides
(C) Eleusine coracana (Correct Answer)
(D) Sorghum bicolour

Question No.36

Marks: 1.00

Bookmark

Which of the following takes the food to the stomach?

- (A) Duodenum
(B) Cystic duct
(C) Spleen
(D) Oesophagus (Correct Answer) (Chosen option)

Question No.37

Marks: 1.00

Bookmark Iron is extracted from Fe_2O_3 by _____.

- (A) calcination
(B) smelting with carbon (Correct Answer) (Chosen option)
(C) water gas
(D) reduction with Al

Question No.38

Marks: 1.00

Bookmark

Which one of the following is a solanaceous vegetable?

- (A) Brinjal (Correct Answer)
(B) Carrot
(C) Radish (Chosen option)
(D) Onion

Question No.39

Marks: 1.00

Bookmark

Elements and Compounds were commonly termed as _____.

- (A) Mixture substance
(B) Natural substance
(C) Pure substance (Correct Answer) (Chosen option)

(D) Real substance

Question No.40

Marks: 1.00

Bookmark

Which among the following may be a reason for transmission of the Human Immuno Virus?

- (A) Contaminated Food
(B) Cough
(C) Mosquito Bite
(D) **Blood Transfusion (Correct Answer)** (Chosen option)

Question No.41

Marks: 1.00

Bookmark

What is the atomic number of an atom that has 3 protons, 4 neutrons and 3 electrons?

- (A) **3 (Correct Answer)** (Chosen option)
(B) 4
(C) 7
(D) 6

Question No.42

Marks: 1.00

Bookmark

What is the coefficient of performance of a refrigerator that needs to maintain eatables at 9°C if the room temperature is 36°C?

- (A) **10.44 (Correct Answer)**
(B) 309
(C) 273
(D) 20.88

Question No.43

Marks: 1.00

Bookmark

Which one of the following is pulses cum oil seed crop?

- (A) Greengram
(B) **Soybean (Correct Answer)**
(C) Sunflower (Chosen option)
(D) Cowpea

Question No.44

Marks: 1.00

Bookmark

Which of the following families does the Housefly belong to?

- (A) Hominidae
(B) Anacardiaceae
(C) Poaceae
(D) **Muscidae (Correct Answer)** (Chosen option)

Question No.45

Marks: 1.00

Bookmark

Which of the following is called pressurised irrigation?

- (A) Sub Surface
- (B) Furrow irrigation
- (C) Gravity method of irrigation
- (D) **Drip irrigation (Correct Answer)**

Question No.46

Marks: 1.00

Bookmark

What is the collision in which the two particles move together after the collision called?

- (A) Inelastic collision
- (B) **Completely inelastic collision (Correct Answer)**
- (C) Head on collision
- (D) Conserved collision

Question No.47

Marks: 1.00

Bookmark

Classification of climate based on temperature and rainfall was given by _____.

- (A) De condole
- (B) Thornthwaite
- (C) **Koppen (Correct Answer)**
- (D) Troll

Question No.48

Marks: 1.00

Bookmark

Rice belongs to the family of _____.

- (A) Asteraceae
- (B) Malvaceae
- (C) Tiliaceae
- (D) **Poaceae (Correct Answer)**

Question No.49

Marks: 1.00

Bookmark

In which of the following life cycles, the zygote divides by meiosis to form haploid spores that grow into haploid individuals?

- (A) Diplohaplontic
- (B) Diplontic
- (C) Haplodiplontic
- (D) **Haplontic (Correct Answer)**

Question No.50

Marks: 1.00

Bookmark

If a substance loses oxygen during a reaction, it is said to be _____.

- (A) Oxidised (Chosen option)
- (B) Iodised
- (C) **Reduced (Correct Answer)**
- (D) Anodised

Question No.51

Marks: 1.00

Bookmark

Which among the following expressions correctly describes the value of 1 Watt?

- (A) 1 W = 1 Volt / 1 Ampere
(B) 1 W = 1 Joule / 1 Ampere
(C) 1 W = 1 Volt * 1 Ampere (Correct Answer) (Chosen option)
(D) 1 W = 1 Joule * 1 Ampere

Question No.52

Marks: 1.00

Bookmark

Choose the correct option among the following.

- (A) Impulse = Force × velocity
(B) Impulse = Force × time duration (Correct Answer) (Chosen option)
(C) Impulse = mass × velocity
(D) Impulse = Force × mass

Question No.53

Marks: 1.00

Bookmark

Momentum is a _____ quantity.

- (A) Tensor
(B) Scalar
(C) Matrix
(D) Vector (Correct Answer) (Chosen option)

Question No.54

Marks: 1.00

Bookmark

Which of the following are small finger-like foldings in the small intestine?

- (A) Villi (Correct Answer) (Chosen option)
(B) Cortex
(C) Cristae
(D) Pili

Question No.55

Marks: 1.00

Bookmark

Graphite has a layered structure. The inter planar distance is about _____.

- (A) 435 pm
(B) 335 pm (Correct Answer)
(C) 135 pm
(D) 225 pm

Question No.56

Marks: 1.00

Bookmark

What is the coordinate system along with a clock that is used to describe the position of an object known as?

- (A) Reference point (Chosen option)

- (B) Point of origin
(C) Path length
(D) **Frame of reference (Correct Answer)**

Question No.57

Marks: 1.00

Bookmark

Who among the following formulated the cell theory?

- (A) Robert Hooke
(B) **Schwann (Correct Answer)** (Chosen option)
(C) Robert Brown
(D) Carolus Linnaeus

Question No.58

Marks: 1.00

Bookmark

The pH value of 14 indicates _____.

- (A) **Strong Alkaline (Correct Answer)** (Chosen option)
(B) Weak Alkaline
(C) Strong Acid
(D) Neutral

Question No.59

Marks: 1.00

Bookmark

Which among the following hormones causes seed dormancy?

- (A) **Abscisic acid (Correct Answer)** (Chosen option)
(B) Gibberellin
(C) Cytokinin
(D) Auxin

Question No.60

Marks: 1.00

Bookmark

Which is the outer covering of the brain?

- (A) Arachnoid mater
(B) **Dura mater (Correct Answer)**
(C) Thalamic mater
(D) Pia mater

Question No.61

Marks: 1.00

Bookmark

The direct contact of which two wires in an electric circuit causes the condition of overloading?

- (A) Earth wire and Neutral wire
(B) Live wire and Earth wire
(C) Earth wire and Electric fuse
(D) **Live wire and Neutral wire (Correct Answer)** (Chosen option)

Question No.62

Marks: 1.00

Bookmark

What is the time taken by two consecutive compressions or rarefactions to cross a fixed point called?

- (A) Wavelength (Chosen option)
(B) Time period (Correct Answer)
(C) Pitch
(D) Frequency

Question No.63

Marks: 1.00

Bookmark

Which among the following lymphocytes are primarily responsible for producing antibodies?

- (A) B-Lymphocytes (Correct Answer)
(B) Melanocytes
(C) Haematids
(D) T-Lymphocytes (Chosen option)

Question No.64

Marks: 1.00

Bookmark

The bond formed by the sharing of electron pairs between atoms is _____.

- (A) Ionic Bond
(B) Electrovalent bond
(C) Hydrogen Bond
(D) Covalent bond (Correct Answer) (Chosen option)

Question No.65

Marks: 1.00

Bookmark

What is the chemical formula of cinnabar?

- (A) CaO
(B) HgS (Correct Answer) (Chosen option)
(C) H₂SO₄
(D) HCl

Question No.66

Marks: 1.00

Bookmark

In which of the following, the roots are involved in nitrogen fixation?

- (A) Cycas (Correct Answer)
(B) Cedrus
(C) Pinus
(D) Lycopodium

Question No.67

Marks: 1.00

Bookmark

Who among the following first described the nucleus as a cell organelle?

- (A) Flemming
(B) F.W. Taylor

- (C) Camillo Golgi
(D) **Robert Brown (Correct Answer)** (Chosen option)

Question No.68

Marks: 1.00

Bookmark

Who among the following is the Father of Hybrid Rice?

- (A) B.P. Paul
(B) **Y.L. Ping (Correct Answer)**
(C) C.A. Barber
(D) M. Maheswari

Question No.69

Marks: 1.00

Bookmark

Which among the following structures is the stacking up of grana like the piles of coins in chloroplast?

- (A) Stroma
(B) **Thylakoids (Correct Answer)**
(C) Inner membrane
(D) Stroma lamellae

Question No.70

Marks: 1.00

Bookmark

In which of the following type of plastids the fat-soluble carotenoids like carotene and xanthophylls are present?

- (A) **Chromoplast (Correct Answer)**
(B) Chloroplast
(C) Leucoplast
(D) Erythroblast