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OSSC SCEW

Previous Year Paper
Paper-II
11 Feb, 2022 Shift 2



Post Name: **Paper - II**

Mathematics - Mathematics

<div>Question No.1</div> <div>Marks: 1.00</div> <div>Bookmark <input type="checkbox"/></div> <div>An article is bought for Rs.29000 and sold at a loss of 25%. Find its selling price.(in Rs)</div> <div>(A) <input type="radio"/> 28150</div> <div>(B) <input type="radio"/> 26150</div> <div>(C) <input type="radio"/> 29150</div> <div>(D) <input checked="" type="radio"/> 27150 (Correct Answer) (Chosen option)</div>
<div>Question No.2</div> <div>Marks: 1.00</div> <div>Bookmark <input type="checkbox"/></div> <div>Find the smallest number by which 2058 must be multiplied to obtain a perfect cube.</div> <div>(A) <input type="radio"/> 38</div> <div>(B) <input checked="" type="radio"/> 36 (Correct Answer) (Chosen option)</div> <div>(C) <input type="radio"/> 34</div> <div>(D) <input type="radio"/> 40</div>
<div>Question No.3</div> <div>Marks: 1.00</div> <div>Bookmark <input type="checkbox"/></div> <div>Find the simple interest on Rs.5800 at 5% per annum for 8 years.(in Rs)</div> <div>(A) <input type="radio"/> 2520</div> <div>(B) <input checked="" type="radio"/> 2320 (Correct Answer) (Chosen option)</div> <div>(C) <input type="radio"/> 2220</div> <div>(D) <input type="radio"/> 2420</div>
<div>Question No.4</div> <div>Marks: 1.00</div> <div>Bookmark <input type="checkbox"/></div> <div>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)</div> <div>(A) <input type="radio"/> 135.85</div> <div>(B) <input type="radio"/> 115.85</div> <div>(C) <input type="radio"/> 95.85</div> <div>(D) <input checked="" type="radio"/> 125.85 (Correct Answer) (Chosen option)</div>
<div>Question No.5</div> <div>Marks: 1.00</div> <div>Bookmark <input type="checkbox"/></div>

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?

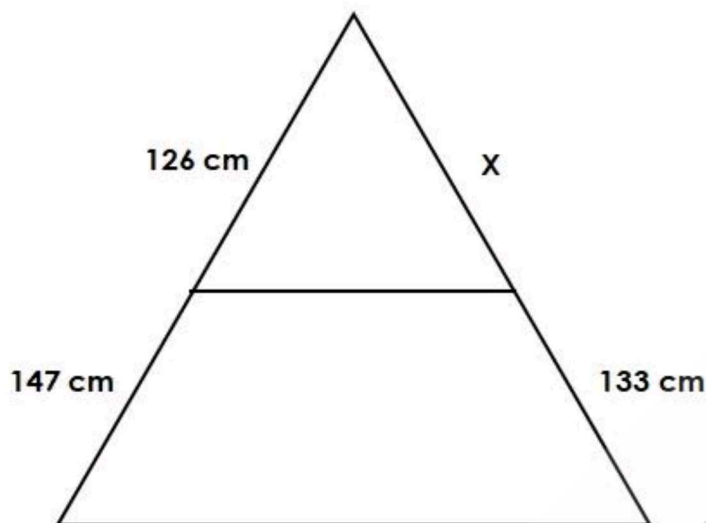
- (A) ☐ 112
(B) ☐ 110
(C) ☐ 114
(D) ☐ **108 (Correct Answer)** (Chosen option)

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) ☐ Thallophtyes
(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 \times velocity
(B) ☒ **Impulse = Force \times time duration (Correct Answer)** (Chosen option)
(C) ☐ Impulse = mass \times velocity
(D) ☐ Impulse = Force \times 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) ☐ **Absciscic 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

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