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# OSSC SCEW

**Previous Year Paper**

**Paper-II**

**11 Feb, 2022 Shift 2**



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?

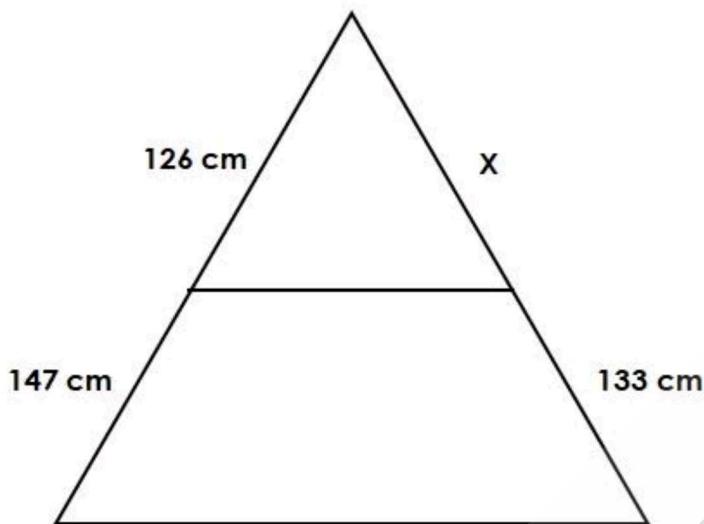
(A)  112  
(B)  110  
(C)  114  
(D)  108 (Correct Answer) (Chosen option)

**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) (Chosen option)
- (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  $45^\circ$ . 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  $60^\circ$ . 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)  **P<sub>k</sub><sub>a</sub> (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<sup>2</sup> (Correct Answer)**
- (B)  10 m/s<sup>2</sup>
- (C)  5 m/s<sup>2</sup>
- (D)  50 m/s<sup>2</sup>

#### 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 \* 10<sup>23</sup> mol<sup>-1</sup> (Correct Answer)**
- (B)  1.38 \* 10<sup>-23</sup> mol<sup>-1</sup> (Chosen option)
- (C)  9.109 \* 10<sup>-31</sup> mol<sup>-1</sup>
- (D)  1.602 \* 10<sup>-19</sup> mol<sup>-1</sup>

**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)  Thallophytes
- (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<sub>2</sub>H<sub>5</sub>COOH
- (B)  CH<sub>3</sub>CHO
- (C)  C<sub>6</sub>H<sub>5</sub>OH
- (D)  C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> (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 bicolor

**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<sub>2</sub>O<sub>3</sub> 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)  Thorntwaite
- (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)   $1\text{ W} = 1\text{ Volt} / 1\text{ Ampere}$
- (B)   $1\text{ W} = 1\text{ Joule} / 1\text{ Ampere}$
- (C)  **1 W = 1 Volt \* 1 Ampere (Correct Answer)** (Chosen option)
- (D)   $1\text{ W} = 1\text{ Joule} * 1\text{ Ampere}$

**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)  **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)  H<sub>2</sub>SO<sub>4</sub>
- (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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