


OSSC CGL 2022-23

E-BOOK- PDF

7,000 MCQ

EXPLANATION

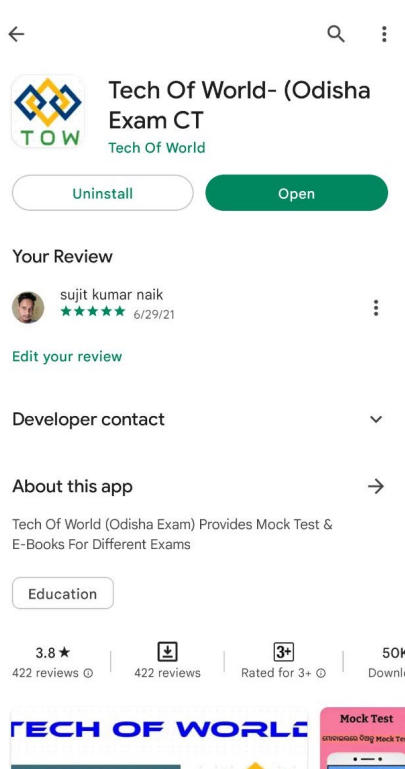
All Important Questions & Answers



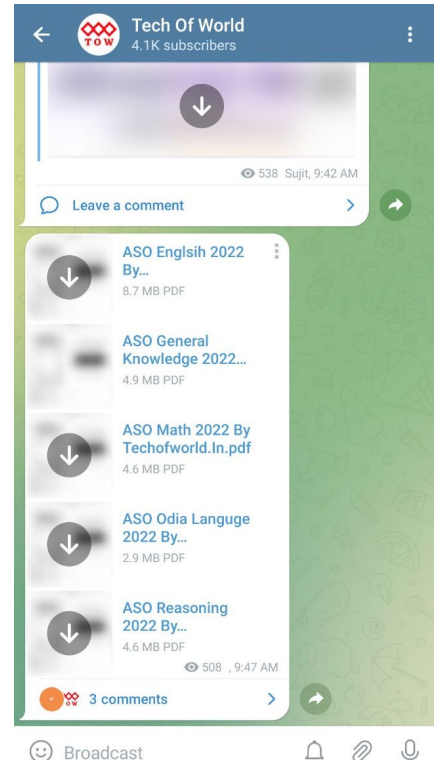
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Roll No. 191113204004

Registra' SC'

Name: L ARI

Exam Date: -Feb-2022

Exam Time: 14:00-15:30

Post Name: Paper - II

Registered Photo



Exam Day Photo

**Mathematics - Mathematics****Question No.1**

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.2

Marks: 1.00

Bookmark

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

- (A) 1290
(B) • 1190 (Correct Answer) (Chosen option)
(C) 1090
(D) 1390

Question No.3

Marks: 1.00

Bookmark

Find the cube root of 21952 by prime factorisation method.

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

Question No.4

Marks: 1.00

Bookmark

Find the mode.

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

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

Question No.5

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) • 1512 (Correct Answer) (Chosen option)
(C) 1612
(D) 1812

Question No.6

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) 951
(C) 961
(D) • 931 (Correct Answer) (Chosen option)

Question No.7

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

Question No.8

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

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

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

Question No.9

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) 1757
(B) 1457
(C) 1657
(D) • 1557 (Correct Answer) (Chosen option)

Question No.10

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

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

Question No.11

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

Question No.12

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

Question No.13

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

Question No.14

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

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

Question No.15

Which of the following numbers is divisible by 12?

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

Question No.16

Let's consider the data:

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

What is the median?

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

Question No.17

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) • 155 (Correct Answer) (Chosen option)
- (C) 175
- (D) 165

Question No.18

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

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

Question No.19

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

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

Question No.20

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

Question No.21

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

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

Question No.22

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

Question No.23

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

Question No.24

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) • 4800 (Correct Answer) (Chosen option)
- (C) 5000
- (D) 4900

Question No.25

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

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

Question No.26

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) 2420
- (D) 2220

Question No.27

From the given figure find X. (In cm)



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

Question No.28

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) 293
- (D) 283

Question No.29

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

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

Question No.30

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

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

Question No.31

Marks: 1.00

Bookmark

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

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

Question No.32

Marks: 1.00

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

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

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

Question No.34

Marks: 1.00

Bookmark

Which of the following is a perfect cube?

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

Question No.35

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

Question No.36

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) 189
(B) • 179 (Correct Answer) (Chosen option)
(C) 169
(D) 199

Question No.37	Marks: 1.00
A dealer bought a washing machine for Rs.18500 and sold at a gain of 25%. Find its selling price.(in Rs)	Bookmark <input type="checkbox"/>
(A) 25125 (B) 24125 (C) • 23125 (Correct Answer) (Chosen option) (D) 22125	
Question No.38	Marks: 1.00
Find the least number with which you would divide 17672, to get a perfect square.	Bookmark <input type="checkbox"/>
(A) 4 (B) 6 (C) 8 (D) • 2 (Correct Answer) (Chosen option)	
Question No.39	Marks: 1.00
Find the unit digit in the product $(621 \times 735 \times 4297 \times 5313)$.	Bookmark <input type="checkbox"/>
(A) • 5 (Correct Answer) (Chosen option) (B) 7 (C) 6 (D) 4	
Question No.40	Marks: 1.00
If 25% of a certain number is 1900, then what is 85% of that number?	Bookmark <input type="checkbox"/>
(A) 6760 (B) 6660 (C) 6560 (D) • 6460 (Correct Answer) (Chosen option)	
Question No.41	Marks: 1.00
Given $a^2 - b^2 = 3393$ and $a + b = 261$, then find the value of $a - b$.	Bookmark <input type="checkbox"/>
(A) 11 (B) 15 (C) • 13 (Correct Answer) (Chosen option) (D) 17	
Question No.42	Marks: 1.00
The ratio of three numbers is 15:16:17 and their sum is 2160. Find the second number of the three numbers.	Bookmark <input type="checkbox"/>
(A) 740 (B) • 720 (Correct Answer) (Chosen option) (C) 710 (D) 730	

Question No.43	Marks: 1.00
A mobile is bought for Rs.4500 and sold at Rs.5625. Find the gain percentage.	Bookmark <input type="checkbox"/>
(A) 23 (B) 27 (C) * 25 (Correct Answer) (Chosen option) (D) 29	
Question No.44	Marks: 1.00
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.)	Bookmark <input type="checkbox"/>
(A) 1425 (B) 1525 (C) * 1325 (Correct Answer) (Chosen option) (D) 1225	
Question No.45	Marks: 1.00
Two supplementary angles are in the ratio 7:8. Find the larger angle measures. (In degree)	Bookmark <input type="checkbox"/>
(A) 98 (B) 94 (C) * 96 (Correct Answer) (Chosen option) (D) 92	
Question No.46	Marks: 1.00
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?	Bookmark <input type="checkbox"/>
(A) * 1344 (Correct Answer) (Chosen option) (B) 1444 (C) 1244 (D) 1144	
Question No.47	Marks: 1.00
A right angled triangle has a height 'a = 150 cm', base 'b = 200 cm' and hypotenuse 'c'. Find the value of c. (In cm)	Bookmark <input type="checkbox"/>
(A) 240 (B) 260 (C) 270 (D) * 250 (Correct Answer) (Chosen option)	
Question No.48	Marks: 1.00
Find the remainder, when 644478 is divided by 9.	Bookmark <input type="checkbox"/>
(A) 10 (B) 8 (C) * 4 (Chosen option) (D) 6 (Correct Answer)	

Question No.49	Marks: 1.00 Bookmark <input type="checkbox"/>
Which of the following is divisible by 3? (A) • 378735 (Correct Answer) (Chosen option) (B) 368745 (C) 368835 (D) 368735	
Question No.50	Marks: 1.00 Bookmark <input type="checkbox"/>
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) 95.85 (B) • 125.85 (Correct Answer) (Chosen option) (C) 135.85 (D) 115.85	
General Science - General Science	
Question No.1	Marks: 1.00 Bookmark <input type="checkbox"/>
Which of the following relations is right when resistors are in Parallel arrangement in a circuit? (A) • $1/R = 1/R1 + 1/R2 + 1/R3$ (Correct Answer) (Chosen option) (B) $1/I = 1/I1 + 1/I2 + 1/I3$ (C) $1/V = 1/V1 + 1/V2 + 1/V3$ (D) $R=R1 + R2 + R3$	
Question No.2	Marks: 1.00 Bookmark <input type="checkbox"/>
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) 50 m/s ² (B) 10 m/s ² (C) 5 m/s ² (D) 1 m/s ² (Correct Answer)	
Question No.3	Marks: 1.00 Bookmark <input type="checkbox"/>
Which of the following takes the food to the stomach? (A) • Oesophagus (Correct Answer) (Chosen option) (B) Spleen (C) Cystic duct (D) Duodenum	
Question No.4	Marks: 1.00 Bookmark <input type="checkbox"/>
The buffering action of acidic buffer is maximum when its pH is equal to____ (A) 10 (B) • 5 (Chosen option) (C) Pk_a (Correct Answer) (D) 7	

Question No.5	Marks: 1.00
Among these, which attribute tells us about loudness or softness of a sound?	Bookmark <input type="checkbox"/>
(A) Pitch	
(B) Amplitude (Correct Answer)	
(C) Frequency	
(D) • Wavelength (Chosen option)	
Question No.6	Marks: 1.00
What is the coordination number of face centered cubic structure?	Bookmark <input type="checkbox"/>
(A) 6	
(B) 12 (Correct Answer)	
(C) 8	
(D) 4	
Question No.7	Marks: 1.00
What does the work done by a conservative force such as gravity depend upon?	Bookmark <input type="checkbox"/>
(A) Mass of the body	
(B) • Acceleration of the body (Chosen option)	
(C) Path taken by the object	
(D) Initial and Final positions (Correct Answer)	
Question No.8	Marks: 1.00
What is the collision in which the two particles move together after the collision called?	Bookmark <input type="checkbox"/>
(A) Completely inelastic collision (Correct Answer)	
(B) Head on collision	
(C) Conserved collision	
(D) Inelastic collision	
Question No.9	Marks: 1.00
Shade loving plants are called _____.	Bookmark <input type="checkbox"/>
(A) Halophytes	
(B) Heliophytes	
(C) • Sciophytes (Correct Answer) (Chosen option)	
(D) Thallophytes	
Question No.10	Marks: 1.00
If a substance loses oxygen during a reaction, it is said to be _____.	Bookmark <input type="checkbox"/>
(A) • Reduced (Correct Answer) (Chosen option)	
(B) Oxidised	
(C) Iodised	
(D) Anodised	

Question No.11	Marks: 1.00
Which among the following expressions correctly describes the value of 1 Watt? (A) 1 W = 1 Joule / 1 Ampere (B) 1 W = 1 Volt / 1 Ampere (C) • 1 W = 1 Volt * 1 Ampere (Correct Answer) (Chosen option) (D) 1 W = 1 Joule * 1 Ampere	Bookmark <input checked="" type="checkbox"/>
Question No.12	Marks: 1.00
Poor man's friend crop is known as _____. (A) Tapioca (B) Cumbu (C) • Rice (Chosen option) (D) Potato (Correct Answer)	Bookmark <input type="checkbox"/>
Question No.13	Marks: 1.00
Rice belongs to the family of _____. (A) Poaceae (Correct Answer) (B) Malvaceae (C) Tiliaceae (D) Asteraceae	Bookmark <input type="checkbox"/>
Question No.14	Marks: 1.00
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	Bookmark <input type="checkbox"/>
Question No.15	Marks: 1.00
The seed of groundnut is called _____. (A) Kernel (Correct Answer) (B) Haulm (C) Earhead (D) Grain	Bookmark <input type="checkbox"/>
Question No.16	Marks: 1.00
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 (C) • Equal to its own volume (Correct Answer) (Chosen option) (D) Depends on the fluid	Bookmark <input type="checkbox"/>

Question No.17	Marks: 1.00
Classification of climate based on temperature and rainfall was given by _____.	Bookmark <input type="checkbox"/>
(A) Koppen (Correct Answer)	
(B) Thornthwaite	
(C) De condole	
(D) Troll	
Question No.18	Marks: 1.00
What is the value of Avogadro's number?	Bookmark <input type="checkbox"/>
(A) $9.109 \times 10^{-31} \text{ mol}^{-1}$	
(B) $1.602 \times 10^{-19} \text{ mol}^{-1}$	
(C) $6.022 \times 10^{23} \text{ mol}^{-1}$ (Correct Answer) (Chosen option)	
(D) $1.38 \times 10^{-23} \text{ mol}^{-1}$	
Question No.19	Marks: 1.00
An element common to all acids is _____.	Bookmark <input type="checkbox"/>
(A) Nitrogen	
(B) Oxygen	
(C) \bullet Hydrogen (Correct Answer) (Chosen option)	
(D) Chlorine	
Question No.20	Marks: 1.00
Which of the following are small finger-like foldings in the small intestine?	Bookmark <input type="checkbox"/>
(A) \bullet Villi (Correct Answer) (Chosen option)	
(B) Cristae	
(C) Pili	
(D) Cortex	
Question No.21	Marks: 1.00
In which of the following life cycles, the zygote divides by meiosis to form haploid spores that grow into haploid individuals?	Bookmark <input type="checkbox"/>
(A) Haplodiplontic	
(B) Diplohaplontic	
(C) Haplontic (Correct Answer)	
(D) Diplontic	
Question No.22	Marks: 1.00
The direct contact of which two wires in an electric circuit causes the condition of overloading?	Bookmark <input type="checkbox"/>
(A) \bullet Earth wire and Neutral wire (Chosen option)	
(B) Earth wire and Electric fuse	
(C) Live wire and Neutral wire (Correct Answer)	
(D) Live wire and Earth wire	

Question No.23	Marks: 1.00
Which of the following is called secondary meristem?	Bookmark <input type="checkbox"/>
(A) Intercalary meristem (B) Apical meristem (C) Cork-cambium (Correct Answer) (D) • Shoot apical (Chosen option)	
Question No.24	Marks: 1.00
What is the coordinate system along with a clock that is used to describe the position of an object known as?	Bookmark <input type="checkbox"/>
(A) Point of origin (B) Path length (C) Reference point (D) Frame of reference (Correct Answer)	
Question No.25	Marks: 1.00
Which among the following hormones causes seed dormancy?	Bookmark <input type="checkbox"/>
(A) Cytokinin (B) • Gibberellin (Chosen option) (C) Abscisic acid (Correct Answer) (D) Auxin	
Question No.26	Marks: 1.00
When two reactants A and B are mixed to give products C and D, the reaction quotient Q at the initial stages of reaction _____.	Bookmark <input type="checkbox"/>
(A) decreases with time (B) increases with time (Correct Answer) (C) is zero (D) is independent of time	
Question No.27	Marks: 1.00
Which of the following families does the Housefly belong to?	Bookmark <input type="checkbox"/>
(A) Hominidae (B) Poaceae (C) Anacardiaceae (D) Muscidae (Correct Answer)	
Question No.28	Marks: 1.00
What is 1Torr of pressure equivalent to?	Bookmark <input type="checkbox"/>
(A) 1 cm of mercury (B) • 5 mm of mercury (Chosen option) (C) 10 cm of mercury (D) 1 mm of mercury (Correct Answer)	

Question No.29	Marks: 1.00
Who among the following formulated the cell theory? (A) Robert Hooke (B) Robert Brown (C) • Schwann (Correct Answer) (Chosen option) (D) Carolus Linnaeus	Bookmark <input type="checkbox"/>
Question No.30	Marks: 1.00
Which among the following lymphocytes are primarily responsible for producing antibodies? (A) Haematids (B) • B-Lymphocytes (Correct Answer) (Chosen option) (C) Melanocytes (D) T-Lymphocytes	Bookmark <input type="checkbox"/>
Question No.31	Marks: 1.00
Which of the following contains information on one taxon only? (A) Couplets (B) Monographs (Correct Answer) (C) Catalogs (D) Manuals	Bookmark <input type="checkbox"/>
Question No.32	Marks: 1.00
In which of the following, the roots are involved in nitrogen fixation? (A) Cedrus (B) Cycas (Correct Answer) (C) • Pinus (Chosen option) (D) Lycopodium	Bookmark <input type="checkbox"/>
Question No.33	Marks: 1.00
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) • Tyndall effect (Correct Answer) (Chosen option) (B) Seismic reflection (C) Wave transmission (D) Total internal reflection	Bookmark <input type="checkbox"/>
Question No.34	Marks: 1.00
The pH value of 14 indicates _____. (A) Weak Alkaline (B) • Strong Alkaline (Correct Answer) (Chosen option) (C) Strong Acid (D) Neutral	Bookmark <input type="checkbox"/>

Question No.35	Marks: 1.00
What is the chemical formula of cinnabar?	Bookmark <input type="checkbox"/>
(A) CaO	
(B) H ₂ SO ₄	
(C) • HgS (Correct Answer) (Chosen option)	
(D) HCl	
Question No.36	Marks: 1.00
What is the coefficient of performance of a refrigerator that needs to maintain eatables at 9°C if the room temperature is 36°C?	Bookmark <input type="checkbox"/>
(A) 20.88	
(B) 10.44 (Correct Answer)	
(C) 273	
(D) 309	
Question No.37	Marks: 1.00
Rate of change of momentum of a body is a result of the _____ acting on that body.	Bookmark <input type="checkbox"/>
(A) Friction	
(B) • Net Force (Correct Answer) (Chosen option)	
(C) Energy	
(D) Velocity	
Question No.38	Marks: 1.00
Who among the following is the Father of Hybrid Rice?	Bookmark <input type="checkbox"/>
(A) Y.L. Ping (Correct Answer)	
(B) M. Maheswari	
(C) • B.P. Paul (Chosen option)	
(D) C.A. Barber	
Question No.39	Marks: 1.00
Which of the following hormones regulates the basal metabolic rate?	Bookmark <input type="checkbox"/>
(A) • Thyroid Hormones (Correct Answer) (Chosen option)	
(B) Peptide Hormone	
(C) Oxytocin Hormone	
(D) Vasopressin Hormone	
Question No.40	Marks: 1.00
How many sodium ions get transported outside for every two Potassium getting into the cell?	Bookmark <input type="checkbox"/>
(A) • Two (Chosen option)	
(B) Three (Correct Answer)	
(C) Five	
(D) Four	

<p>Question No.41</p> <p>Which is the outer covering of the brain?</p> <p>(A) Thalamic mater (B) Arachnoid mater (C) Pia mater (D) • Dura mater (Correct Answer) (Chosen option)</p>	<p>Marks: 1.00</p> <p>Bookmark <input type="checkbox"/></p>
<p>Question No.42</p> <p>Which among the following may be a reason for transmission of the Human Immuno Virus?</p> <p>(A) Cough (B) • Blood Transfusion (Correct Answer) (Chosen option) (C) Contaminated Food (D) Mosquito Bite</p>	<p>Marks: 1.00</p> <p>Bookmark <input type="checkbox"/></p>
<p>Question No.43</p> <p>Which among the following structures is the stacking up of grana like the piles of coins in chloroplast?</p> <p>(A) Stroma lamellae (B) Inner membrane (C) • Stroma (Chosen option) (D) Thylakoids (Correct Answer)</p>	<p>Marks: 1.00</p> <p>Bookmark <input type="checkbox"/></p>
<p>Question No.44</p> <p>Choose the correct option among the following.</p> <p>(A) Impulse = Force \times mass (B) • Impulse = Force \times time duration (Correct Answer) (Chosen option) (C) Impulse = mass \times velocity (D) Impulse = Force \times velocity</p>	<p>Marks: 1.00</p> <p>Bookmark <input checked="" type="checkbox"/></p>
<p>Question No.45</p> <p>The bond formed by the sharing of electron pairs between atoms is _____.</p> <p>(A) Electrovalent bond (B) Hydrogen Bond (C) Ionic Bond (D) • Covalent bond (Correct Answer) (Chosen option)</p>	<p>Marks: 1.00</p> <p>Bookmark <input type="checkbox"/></p>
<p>Question No.46</p> <p>In which of the following type of plastids the fat-soluble carotenoids like carotene and xanthophylls are present?</p> <p>(A) • Chromoplast (Correct Answer) (Chosen option) (B) Leucoplast (C) Chloroplast (D) Erythroblast</p>	<p>Marks: 1.00</p> <p>Bookmark <input type="checkbox"/></p>

Question No.47	Marks: 1.00
Where does the breakdown of pyruvate using oxygen take place?	Bookmark <input type="checkbox"/>
(A) • Cytoplasm (Chosen option)	
(B) Food Vacuole	
(C) Mitochondria (Correct Answer)	
(D) Cell Wall	
Question No.48	Marks: 1.00
Which among the following is the first genetic material?	Bookmark <input type="checkbox"/>
(A) Ribonucleic Acid (Correct Answer)	
(B) Mitochondria	
(C) Cellulose	
(D) • Deoxyribonucleic Acid (Chosen option)	
Question No.49	Marks: 1.00
The botanical name of Finger Millet/Ragi is _____.	Bookmark <input type="checkbox"/>
(A) Sorghum bicolour	
(B) Pennisetum typhoides	
(C) Triticum spp	
(D) Eleusine coracana (Correct Answer)	
Question No.50	Marks: 1.00
What is the time taken by two consecutive compressions or rarefactions to cross a fixed point called?	Bookmark <input type="checkbox"/>
(A) Frequency	
(B) Time period (Correct Answer)	
(C) Pitch	
(D) • Wavelength (Chosen option)	
Question No.51	Marks: 1.00
Which of the following is called pressurised irrigation?	Bookmark <input type="checkbox"/>
(A) Furrow irrigation	
(B) Gravity method of irrigation	
(C) Drip irrigation (Correct Answer)	
(D) Sub Surface	
Question No.52	Marks: 1.00
As per the French mathematician Bravais what is the maximum possible three dimensional lattices?	Bookmark <input type="checkbox"/>
(A) 16	
(B) 6	
(C) 9	
(D) 14 (Correct Answer)	

Question No.53	Marks: 1.00
Elements and Compounds were commonly termed as _____.	Bookmark <input type="checkbox"/>
(A) Natural substance	
(B) • Real substance (Chosen option)	
(C) Mixture substance	
(D) Pure substance (Correct Answer)	
Question No.54	Marks: 1.00
What is the molecular formula of sugar?	Bookmark <input type="checkbox"/>
(A) C_6H_5OH	
(B) • $C_{12}H_{22}O_{11}$ (Correct Answer) (Chosen option)	
(C) C_2H_5COOH	
(D) CH_3CHO	
Question No.55	Marks: 1.00
Which of the following structures has the least packing efficiency?	Bookmark <input type="checkbox"/>
(A) Hexagonal Closed Packed Structure	
(B) Cubic Closed Packed Structure	
(C) Simple Cubic Structure (Correct Answer)	
(D) Body centred Cubic Structure	
Question No.56	Marks: 1.00
By which of the following reactions phenol is converted into salicylaldehyde?	Bookmark <input type="checkbox"/>
(A) Cannizzaro Reaction	
(B) Haloform Reaction	
(C) Kolbe Reaction	
(D) Reimer-Tiemann Reaction (Correct Answer)	
Question No.57	Marks: 1.00
What is the atomic number of an atom that has 3 protons, 4 neutrons and 3 electrons?	Bookmark <input type="checkbox"/>
(A) 6	
(B) 7	
(C) 4	
(D) • 3 (Correct Answer) (Chosen option)	
Question No.58	Marks: 1.00
Which part connects the two hemispheres of the brain?	Bookmark <input type="checkbox"/>
(A) Thalamus	
(B) Corpus callosum (Correct Answer)	
(C) Hypothalamus	
(D) Subthalamus	

Question No.59	Marks: 1.00
Addition of small amounts of B to Ge produces _____.	Bookmark <input type="checkbox"/>
(A) graphite-like conductor (B) intrinsic semiconductor (C) extrinsic semiconductor (Correct Answer) (D) a metal-like conductor	
Question No.60	Marks: 1.00
How many electrons are present in the hydrogen atom?	Bookmark <input type="checkbox"/>
(A) 3 (B) 0 (C) • 1 (Correct Answer) (Chosen option) (D) 2	
Question No.61	Marks: 1.00
Work done by a force in the direction of displacement can be defined as the product of _____.	Bookmark <input type="checkbox"/>
(A) Force and Mass (B) Force and Momentum (C) Force and Weight (D) • Force and Displacement (Correct Answer) (Chosen option)	
Question No.62	Marks: 1.00
Who among the following first described the nucleus as a cell organelle?	Bookmark <input type="checkbox"/>
(A) • Robert Brown (Correct Answer) (Chosen option) (B) Camillo Golgi (C) Flemming (D) F.W. Taylor	
Question No.63	Marks: 1.00
Which one of the following is pulses cum oil seed crop?	Bookmark <input type="checkbox"/>
(A) Greengram (B) • Sunflower (Chosen option) (C) Soybean (Correct Answer) (D) Cowpea	
Question No.64	Marks: 1.00
Graphite has a layered structure. The inter planar distance is about _____.	Bookmark <input type="checkbox"/>
(A) 335 pm (Correct Answer) (B) 135 pm (C) 435 pm (D) 225 pm	

Question No.65	Marks: 1.00
What is the Critical angle of Water with respect to the air that has a refractive index of 1.33?	Bookmark <input type="checkbox"/>
(A) 38.75 (B) 48.75 (Correct Answer) (C) 28.75 (D) 68.75	
Question No.66	Marks: 1.00
Momentum is a _____ quantity.	Bookmark <input type="checkbox"/>
(A) Matrix (B) Tensor (C) Scalar (D) • Vector (Correct Answer) (Chosen option)	
Question No.67	Marks: 1.00
Iron is extracted from Fe_2O_3 by _____.	Bookmark <input type="checkbox"/>
(A) smelting with carbon (Correct Answer) (B) water gas (C) reduction with Al (D) • calcination (Chosen option)	
Question No.68	Marks: 1.00
Which among the following is an example of an electrical semiconductor?	Bookmark <input type="checkbox"/>
(A) Aluminium (B) Copper (C) Graphite (D) • Gallium arsenide (Correct Answer) (Chosen option)	
Question No.69	Marks: 1.00
Where can a far sighted vision defective person place a reading material from the eyes for a comfortable reading?	Bookmark <input type="checkbox"/>
(A) 12 cm to 25 cm (B) Less than 12 cm (C) 20 cm to 25 cm (D) • Beyond 25 cm (Correct Answer) (Chosen option)	
Question No.70	Marks: 1.00
Which one of the following is a solanaceous vegetable?	Bookmark <input type="checkbox"/>
(A) Onion (B) Radish (C) • Brinjal (Correct Answer) (Chosen option) (D) Carrot	