


OSSC CGL 2022-23

E-BOOK- PDF

7,000 MCQ

EXPLANATION

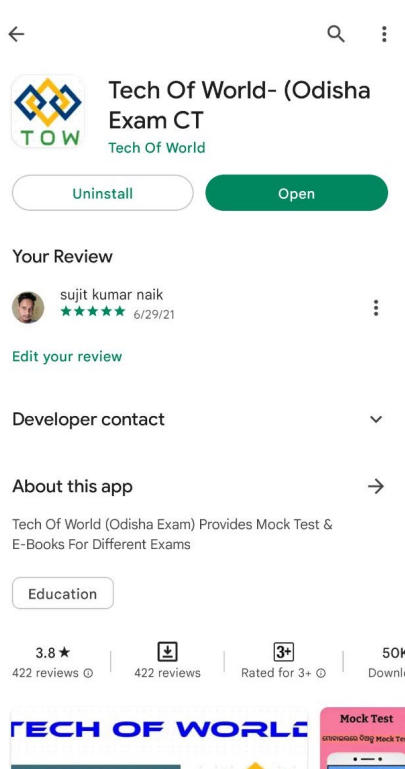
All Important Questions & Answers



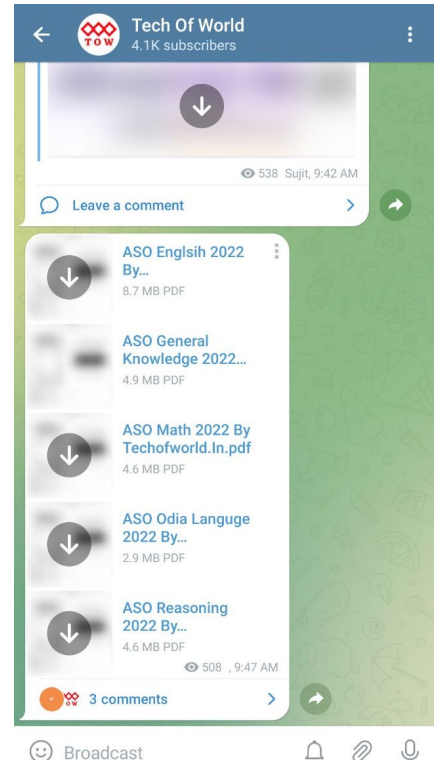
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Exam Date: 10-Feb-2022

Exam Time: 14:00-15:30

Post Name: Paper - II

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Exam Day Photo

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

Marks: 1.00

Bookmark

If 74% of a number is added to 364, then the result is the number itself. Find the number.

- (A) 1400 (Correct Answer) (Chosen option)
(B) 1600
(C) 1500
(D) 1300

Question No.2

Marks: 1.00

Bookmark

If the mean of numbers 55, 69, 105, 131 and X is 86, what is the mean of 75, 89, 125, 151 and x?

- (A) 104
(B) 102 (Correct Answer) (Chosen option)
(C) 108
(D) 106

Question No.3

Marks: 1.00

Bookmark

21025 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 (Correct Answer) (Chosen option)
(B) 165
(C) 135
(D) 155

Question No.4

Marks: 1.00

Bookmark

Two supplementary angles are in the ratio 2:3. Find the smaller angle measures. (In degree)

- (A) 74
(B) 72 (Correct Answer) (Chosen option)
(C) 70
(D) 68



Question No.5

Marks: 1.00

Bookmark

If 25% of a certain number is 1875, then what is 80% of that number?

- (A) 6000 (Correct Answer) (Chosen option)
(B) 6200
(C) 6100
(D) 6300

Question No.6

Marks: 1.00

Bookmark

An article is bought for Rs.27000 and sold at a loss of 20%. Find its selling price.(in Rs)

- (A) 21600 (Correct Answer) (Chosen option)
(B) 23600
(C) 20600
(D) 22600

Question No.7

Marks: 1.00

Bookmark

A, B, C together started a business. A invested Rs.6300 for 5 months B invested Rs.7300 for 4 months and C Rs.8300 for 3 months. If they get a total profit of Rs.12840. Find the share of C. (In Rs.)

- (A) 3935
(B) 3635
(C) 3735 (Correct Answer)
(D) 3835

Question No.8

Marks: 1.00

Bookmark

From a point X on a level ground, the angle of elevation of the top tower is 30° . If the tower is 1100 m high, find the distance of point X from the foot of the tower.(in m and use $\sqrt{3} = 1.73$)

- (A) 1803
(B) 2103
(C) 2003
(D) 1903 (Correct Answer) (Chosen option)

Question No.9

Marks: 1.00

Bookmark

Find the greatest three digit number which is divisible by 14, 42 and 56.

- (A) 820
(B) 830
(C) 840 (Correct Answer) (Chosen option)
(D) 810

Question No.10

Marks: 1.00

Bookmark

A number when divided by 26, 39 and 52, leaves the remainder 10 in each case. Find the

smallest possible number.

- (A) 156 (Chosen option)
(B) 176
(C) **166 (Correct Answer)**
(D) 186

Question No.11

Marks: 1.00

Bookmark

What value will come in the place of question mark(?) in the following equation?
 $\sqrt{5184} + \sqrt{3969} = ?$

- (A) **135 (Correct Answer)** (Chosen option)
(B) 115
(C) 125
(D) 145

Question No.12

Marks: 1.00

Bookmark

In a moderately asymmetrical series, the values of arithmetic mean and median are 39 and 36.5. What is the value of the mode?

- (A) 33.5
(B) **31.5 (Correct Answer)** (Chosen option)
(C) 35.5
(D) 29.5

Question No.13

Marks: 1.00

Bookmark

Find the value of a^2+b^2 , given $(a+b)^2 = 4624$ and $ab=1155$.

- (A) 2414
(B) 2514
(C) **2314 (Correct Answer)** (Chosen option)
(D) 2214

Question No.14

Marks: 1.00

Bookmark

The average weight of X, Y and Z is 123 kg. If the average weight of X and Y is 118 kg and that of Y and Z is 128 kg, then find the weight of Y.

- (A) 143
(B) **123 (Correct Answer)** (Chosen option)
(C) 153
(D) 133

Question No.15

Marks: 1.00

Bookmark

If the average scores of three teams of 155, 165 and 175 members are 155, 165 and 175 respectively, then find the average score of all the members.(rounding off to two decimals)

- (A) 175.41

- (B) 165.41 (Correct Answer) (Chosen option)
(C) 155.41
(D) 185.41

Question No.16

Marks: 1.00

Bookmark

Given $a^2 - b^2 = 2259$ and $a + b = 251$, then find the value of $a - b$.

- (A) 9 (Correct Answer) (Chosen option)
(B) 3
(C) 7
(D) 5

Question No.17

Marks: 1.00

Bookmark

Which of the following is a perfect cube?

- (A) 6132
(B) 6032
(C) 5932
(D) 5832 (Correct Answer) (Chosen option)

Question No.18

Marks: 1.00

Bookmark

Find the sum of all the interior angle of a polygon having 43 sides. (In degree)

- (A) 7480
(B) 7280
(C) 7380 (Correct Answer)
(D) 7580 (Chosen option)

Question No.19

Marks: 1.00

Bookmark

The ratio of three numbers is 14:15:16 and their sum is 2070. Find the second number of the three numbers.

- (A) 710
(B) 700
(C) 690 (Correct Answer) (Chosen option)
(D) 680

Question No.20

Marks: 1.00

Bookmark

Which of the following numbers is divisible by 12?

- (A) 34104 (Correct Answer) (Chosen option)
(B) 35104
(C) 36104
(D) 33104

Question No.21

Marks: 1.00

Bookmark

The ratio of two numbers is 8:9 and their sum is 629. Find the greater of the two numbers.

- (A) 323
(B) 343
(C) **333 (Correct Answer)** (Chosen option)
(D) 353

Question No.22

Marks: 1.00

Bookmark

Find the smallest number by which 2592 must be multiplied to obtain a perfect cube.

- (A) 16
(B) 20
(C) 22
(D) **18 (Correct Answer)** (Chosen option)

Question No.23

Marks: 1.00

Bookmark

Find the smallest number by which 7680 must be divided to obtain a perfect cube.

- (A) **15 (Correct Answer)** (Chosen option)
(B) 17
(C) 13
(D) 19

Question No.24

Marks: 1.00

Bookmark

The LCM of two numbers is 114 and their H.C.F is 19, find the product of two numbers.

- (A) 2266 (Chosen option)
(B) 2366
(C) **2166 (Correct Answer)**
(D) 2466

Question No.25

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.6300?

- (A) **1323 (Correct Answer)** (Chosen option)
(B) 1123
(C) 1423
(D) 1223

Question No.26

Marks: 1.00

Bookmark

Let's consider the data:
42, 39, 28, 35, 39, 49, 38, 43, 38
What is the median?

- (A) 41

- (B) 43
(C) 39 (Correct Answer) (Chosen option)
(D) 37

Question No.27

Marks: 1.00

Bookmark

Find the simple interest on Rs.5600 at 6% per annum for 10 years.(in Rs)

- (A) 3260
(B) 3360 (Correct Answer) (Chosen option)
(C) 3460
(D) 3160

Question No.28

Marks: 1.00

Bookmark

Find the remainder, when 644201 is divided by 9.

- (A) 10
(B) 8 (Correct Answer)
(C) 6 (Chosen option)
(D) 12

Question No.29

Marks: 1.00

Bookmark

Find the unit digit in the product $(528 \times 634 \times 8295 \times 6313)$.

- (A) 6
(B) 4
(C) 0 (Correct Answer) (Chosen option)
(D) 2

Question No.30

Marks: 1.00

Bookmark

A right angled triangle has a height 'a = 138 cm', base 'b = 184 cm' and hypotenuse 'c'. Find the value of c. (In cm)

- (A) 230 (Correct Answer) (Chosen option)
(B) 240
(C) 250
(D) 220

Question No.31

Marks: 1.00

Bookmark

Find the cube root of 42875 by prime factorisation method.

- (A) 37
(B) 41
(C) 35 (Correct Answer) (Chosen option)
(D) 39

Question No.32

Marks: 1.00

Bookmark

A and B invest in a business in the ratio 4:1. If 15% of the total profit goes to charity and A's share is Rs. 1836, find the total profit. (In Rs.)

- (A) 2800
(B) 2900
(C) 2700 (Correct Answer) (Chosen option)
(D) 2600

Question No.33

Marks: 1.00

Bookmark

If $13a=14b$ and $11b=13c$, find a:b:c.

- (A) 15:13:11
(B) 14:13:11 (Correct Answer) (Chosen option)
(C) 17:13:11
(D) 16:13:11

Question No.34

Marks: 1.00

Bookmark

Find the sum invested at compound interest at 30% per annum which will amount to Rs.3887 in 2 years.

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

Question No.35

Marks: 1.00

Bookmark

By selling a table for Rs.1680, a shopkeeper loses 40%. At what price should he sell it to gain 40%?(in Rs.)

- (A) 4120
(B) 3920 (Correct Answer) (Chosen option)
(C) 4020
(D) 4220

Question No.36

Marks: 1.00

Bookmark

Find the smallest square number that is divisible by each of the numbers 12, 16 and 21.

- (A) 7156
(B) 7256
(C) 7056 (Correct Answer) (Chosen option)
(D) 6956

Question No.37

Marks: 1.00

Bookmark

Find the least number with which you would divide 11200, to get a perfect square.

- (A) 5
(B) 3

- (C) 9
(D) 7 (Correct Answer) (Chosen option)

Question No.38

Marks: 1.00

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A, B and C invested Rs.9750, Rs.7800 and Rs.5850 respectively, in a partnership business. Find the share of A in profit of Rs.3120 after a year. (In Rs.)

- (A) 1200
(B) 1300 (Correct Answer)
(C) 1500 (Chosen option)
(D) 1400

Question No.39

Marks: 1.00

Bookmark

A dealer bought a washing machine for Rs.18400 and sold at a gain of 20%. Find its selling price.(in Rs)

- (A) 22080 (Correct Answer) (Chosen option)
(B) 21880
(C) 22280
(D) 21680

Question No.40

Marks: 1.00

Bookmark

From a point X on a level ground, the angle of elevation of the top tower is 30° . If the height of the tower is 2200 m, find the distance between the foot of the tower and point X.(in m and use $\sqrt{3} = 1.73$)

- (A) 3806 (Correct Answer) (Chosen option)
(B) 3706
(C) 3906
(D) 3606

Question No.41

Marks: 1.00

Bookmark

Find the value of a^3+b^3 , given that $3a^2b+3ab^2= 20250$ and $a+b = 30$.

- (A) 6750 (Correct Answer) (Chosen option)
(B) 6850
(C) 6650
(D) 6550

Question No.42

Marks: 1.00

Bookmark

The salaries of A, B and C are in the ratio of 7:15:8. If their total salary is Rs.3960, find the salary received by C.(in Rs)

- (A) 1056 (Correct Answer) (Chosen option)
(B) 1356
(C) 1256

(D) 1156

Question No.43

Marks: 1.00

Bookmark

Find the mode.

69, 77, 61, 69, 65, 73, 65, 73, 71, 69

- (A) 73
(B) 67
(C) 71
(D) 69 (Correct Answer) (Chosen option)

Question No.44

Marks: 1.00

Bookmark

From the given figure find X. (In cm)

- (A) 130
(B) 110 (Correct Answer) (Chosen option)
(C) 140
(D) 120

Question No.45

Marks: 1.00

Bookmark

If $a = 35$ and $b = 22$, then find the value of $a^2 - b^2$.

- (A) 761
(B) 731
(C) 751
(D) 741 (Correct Answer) (Chosen option)

Question No.46

Marks: 1.00

Bookmark

X began business with Rs.77000 and was joined afterwards by Y with Rs.33000. Find after how many months did Y join, if the profits at the end of the year were divided in the ratio of 7:2.

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

Question No.47

Marks: 1.00

Bookmark

Which of the following is divisible by 3?

- (A) 379708
(B) 378708 (Correct Answer) (Chosen option)
(C) 378808
(D) 378718

Question No.48

Marks: 1.00

Bookmark

A mobile is bought for Rs.4400 and sold at Rs.5280. Find the gain percentage.

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

Question No.49

Marks: 1.00

Bookmark

A sum of money at simple interest amounts to Rs.6020 in 2 years and to Rs.6880 in 3 years. Find the sum.(in Rs)

- (A) 4500
(B) 4400
(C) 4600
(D) 4300 (Correct Answer) (Chosen option)

Question No.50

Marks: 1.00

Bookmark

Find the LCM of $\frac{33}{34}$ and $\frac{34}{35}$.

- (A) 1222 (Chosen option)
(B) 1322
(C) 1022
(D) 1122 (Correct Answer)

General Science - General Science

Question No.1

Marks: 1.00

Bookmark

The rate of change of momentum of a body is directly proportional to the applied force and takes place in the _____ in which the force acts.

- (A) opposite direction
(B) 30 degree inclined to the direction
(C) same direction (Correct Answer) (Chosen option)
(D) perpendicular direction

Question No.2

Marks: 1.00

Bookmark

The type of magnetism exhibited by NaCl is _____.

- (A) Ferrimagnetism
(B) Paramagnetism
(C) Ferromagnetism
(D) Diamagnetism (Correct Answer)

Question No.3

Marks: 1.00

Bookmark

Which of the following terms represents a positively charged ion?

- (A) Anode
(B) Cathode
(C) Anion (Chosen option)
(D) Cation (Correct Answer)

Question No.4

Marks: 1.00

Bookmark

If the moon's orbit is considered to be perfectly circular, what is the angle between its instantaneous displacement and earth's gravitational force?

- (A) 45 degree
(B) 120 degree
(C) 90 degree (Correct Answer)
(D) 0 degree

Question No.5

Marks: 1.00

Bookmark

How many valence electrons are present in group 15 elements of modern periodic table?

- (A) 3
(B) 5 (Correct Answer) (Chosen option)
(C) 1
(D) 4

Question No.6

Marks: 1.00

Bookmark

What is the collision in which only some of the kinetic energy is lost and deformation is partly relieved called?

- (A) Conserved collision
(B) Elastic collision
(C)

(C) **Inelastic collision (Correct Answer)**

(D) Completely inelastic collision

Question No.7

Marks: 1.00

Bookmark

The vacuole is bound by a single membrane called _____.

(A) Chloroplast

(B) Chromoplast

(C) Leucoplast (Chosen option)

(D) **Tonoplast (Correct Answer)**

Question No.8

Marks: 1.00

Bookmark

Who among the following first saw and described a live cell?

(A) **Anton Van Leeuwenhoek (Correct Answer)**

(B) Henry Fayol

(C) Matthias Schleiden (Chosen option)

(D) Robert Brown

Question No.9

Marks: 1.00

Bookmark

Heating mixture of Cu_2O And Cu_2S will give _____.

(A) $\text{CuO} + \text{CuS}$

(B) $\text{Cu} + \text{SO}_3$

(C) **$\text{Cu} + \text{SO}_2$ (Correct Answer)** (Chosen option)

(D) Cu_2SO_3

Question No.10

Marks: 1.00

Bookmark

The standard element chosen for relative atomic mass is _____.

(A) **Carbon-12 (Correct Answer)** (Chosen option)

(B) Iodine -121

(C) Chlorine -35

(D) Hydrogen-1

Question No.11

Marks: 1.00

Bookmark

How many oxygen atom /atoms are present in a carbon dioxide molecule?

(A) 4

(B) 1

(C) 3

(D) **2 (Correct Answer)** (Chosen option)

Question No.12

Marks: 1.00

Bookmark

What is the common name of $C_2H_6O_2$?

- (A) Phenol
(B) Glycerol
(C) **Ethylene Glycol (Correct Answer)** (Chosen option)
(D) Ethanol

Question No.13

Marks: 1.00

Bookmark

Which of the following is termed as Milk of Magnesia?

- (A) Neutral solution
(B) **Base (Correct Answer)** (Chosen option)
(C) Plasma
(D) Acid

Question No.14

Marks: 1.00

Bookmark

Which among the following blood vessels carry blood away from the heart to different parts of the body?

- (A) Great saphenous veins
(B) Venules
(C) Veins (Chosen option)
(D) **Arteries (Correct Answer)**

Question No.15

Marks: 1.00

Bookmark

Which of the following defects increases the density of solid?

- (A) Vacancy Defect
(B) Schottky Defect
(C) **Interstitial Defect (Correct Answer)**
(D) Frenkel Defect

Question No.16

Marks: 1.00

Bookmark

The type of reaction in which one type of atom or a group of atoms takes place of another is called ____ reaction.

- (A) Precipitation
(B) **Substitution (Correct Answer)**
(C) Combination
(D) Addition (Chosen option)

Question No.17

Marks: 1.00

Bookmark

Which among the following cell organelle has the size of about 15-20 nanometer?

- (A) **Ribosome (Correct Answer)** (Chosen option)
(B) Chloroplast
(C) Golgi body

(D) Mitochondria

Question No.18

Marks: 1.00

Bookmark

The Ratio of radiant energy reflected to the total incident radiation upon the surface is known as _____.

- (A) Direct radiation
(B) Diffused radiation (Chosen option)
(C) Net radiation
(D) **Albedo (Correct Answer)**

Question No.19

Marks: 1.00

Bookmark

A branch of Agricultural science that deals with principles and practices of soil, water and crop management is termed _____.

- (A) Crop Physiology
(B) Crop ecology
(C) Biotechnology
(D) **Agromony (Correct Answer) (Chosen option)**

Question No.20

Marks: 1.00

Bookmark

Acids and Bases are _____ and _____ in taste respectively.

- (A) Sour, Salty
(B) **Sour, Bitter (Correct Answer) (Chosen option)**
(C) Salty, Sour
(D) Bitter, Sour

Question No.21

Marks: 1.00

Bookmark

Which one of the crops comes under cole vegetables?

- (A) Chillies
(B) Tomato
(C) Brinjal
(D) **Cauliflower (Correct Answer)**

Question No.22

Marks: 1.00

Bookmark

What is the impedance of a resistor of 200 ohm and a capacitor of 15.0 μF connected in series to a 220 V, 50 Hz ac source?

- (A) 17.07 ohm
(B) 583.34 ohm
(C) 145.83 ohm
(D) **291.67 ohm (Correct Answer)**

Question No.23

Marks: 1.00

Bookmark

Which of the following eye defects is known as near-sightedness?

- (A) Presbyopia
(B) Hypermetropia
(C) Cataract
(D) **Myopia (Correct Answer)** (Chosen option)

Question No.24

Marks: 1.00

Bookmark

Which of the following glands is composed of follicles and stromal tissues?

- (A) **Thyroid Gland (Correct Answer)**
(B) Adrenal Gland
(C) Pineal Gland
(D) Pituitary Gland

Question No.25

Marks: 1.00

Bookmark

What is the SI unit of Temperature co-efficient of resistivity of conductors?

- (A) $1/T^2$
(B) **$1/T$ (Correct Answer)**
(C) $1/T^4$
(D) No dimension (Chosen option)

Question No.26

Marks: 1.00

Bookmark

Which of the following is the outermost layer of the alimentary canal?

- (A) Muscularis (Chosen option)
(B) **Serosa (Correct Answer)**
(C) Sub-mucosa
(D) Mucosa

Question No.27

Marks: 1.00

Bookmark

In which of the following families, the genera Solanum, Petunia, and Datura are placed?

- (A) Convolvulaceae
(B) **Solanaceae (Correct Answer)**
(C) Anacardiaceae
(D) Pinaceae

Question No.28

Marks: 1.00

Bookmark

Which of these does not have relation with the first law of thermodynamics?

- (A) **Entropy (Correct Answer)** (Chosen option)
(B) Heat
(C) Work
(D) Internal energy

Question No.29

Marks: 1.00

Bookmark

What is the frequency of a human heart that is found to beat 75 times in a minute on an average?

- (A) 0.013 Hz (Chosen option)
(B) 75 Hz
(C) 0.8 Hz
(D) 1.25 Hz (Correct Answer)

Question No.30

Marks: 1.00

Bookmark

Which of the following is true for Lewis acids?

- (A) Give electron pair
(B) Accept OH⁻ ion
(C) Provide H⁺ ion
(D) Accept electron pair (Correct Answer) (Chosen option)

Question No.31

Marks: 1.00

Bookmark

Which of the following techniques can be used to form the image of the heart using ultrasonic waves?

- (A) Ultrasonography (Chosen option)
(B) X Ray scanning
(C) Echocardiography (Correct Answer)
(D) Magnetic resonance imaging

Question No.32

Marks: 1.00

Bookmark

What is a coil of many circular turns of insulated copper wire wrapped closely in the shape of a cylinder known as?

- (A) Daniel cell
(B) Multimeter
(C) Galvanometer
(D) Solenoid (Correct Answer) (Chosen option)

Question No.33

Marks: 1.00

Bookmark

Which of the following taxon must always start with a small letter?

- (A) Species (Correct Answer)
(B) Family
(C) Genus
(D) Order

Question No.34

Marks: 1.00

Bookmark

What is heroin chemically called?

- (A) Hydromorphone
(B) **Diacetylmorphine (Correct Answer)**
(C) Chloroxylenol
(D) Benzoylmethylecgonine

Question No.35

Marks: 1.00

Bookmark

What is the name of the condition in which the human eyes are positioned on the front of our heads reducing the field of view?

- (A) **Stereopsis (Correct Answer)**
(B) Accommodation
(C) Preventive blindness
(D) Strabismus

Question No.36

Marks: 1.00

Bookmark

What is the number of oscillations of the medium between maximum and minimum density value per unit time called?

- (A) Trough
(B) Crest
(C) **Frequency (Correct Answer) (Chosen option)**
(D) Wavelength

Question No.37

Marks: 1.00

Bookmark

Which one of the following is Noble cane?

- (A) Saccharum barberi
(B) **Saccharum officinarum (Correct Answer)**
(C) Saccharum sinense
(D) Saccharum robustum

Question No.38

Marks: 1.00

Bookmark

Which among the following canal passes through the midbrain?

- (A) Foramen rotundum
(B) Foramen of Winslow
(C) **Cerebral aqueduct (Correct Answer)**
(D) Foramen lacerum

Question No.39

Marks: 1.00

Bookmark

Two or more atoms chemically bonded together by attracting force is called _____.

- (A) Ion
(B) **Molecule (Correct Answer) (Chosen option)**
(C) Matter
(D) Element

Question No.40

Marks: 1.00

Bookmark

What is the condition for which the average speed of an object is equal to the magnitude of the average velocity over a given interval of time?

- (A) Path length = 3 * Magnitude of displacement
(B) Path length * Magnitude of displacement = 1
(C) Path length = 2 * Magnitude of displacement
(D) **Path length = Magnitude of displacement (Correct Answer)**

Question No.41

Marks: 1.00

Bookmark

Removal of plants on a variety admixed with other variety of same crop is termed as _____.

- (A) Desuckering
(B) Propping
(C) **Roguing (Correct Answer)**
(D) Topping

Question No.42

Marks: 1.00

Bookmark

Which of the following is the highly extended and elaborate nucleoprotein fibers in the interphase nucleus?

- (A) **Chromatin (Correct Answer)**
(B) Nucleoplasm
(C) Perinuclear Space
(D) Nucleoli

Question No.43

Marks: 1.00

Bookmark

When sound travels through air, the region of high pressure created is called _____.

- (A) **Compression region (Correct Answer)**
(B) Rarefaction region
(C) Trough
(D) Crest

Question No.44

Marks: 1.00

Bookmark

Which one of the nutrient elements is responsible for osmotic and ionic regulation in plant?

- (A) Phosphorus
(B) Calcium
(C) Zinc
(D) **Potassium (Correct Answer)**

Question No.45

Marks: 1.00

Bookmark