

QUESTION PAPER  
Uchcha Madhyamic Chemistry [SHIFT - 1]

Exam Date : 14/09/2023

Time : 03:00 PM - 05:30 PM

Subject Name : Chemistry

Subject Code : 215

Subject Question

Question 1

The Vander Waal's equation explains the behaviour of

Answer :

- (A) Ideal gases
- (B) Real gases
- (C) Vapour
- (D) Non-real gases

Right Answer :

Real gases

Question Id : 1

Option Id

- 1001
- 1002
- 1003
- 1004

Right Option Id : 1002

Question 2

Gases deviate from the ideal gas behaviour because their molecules

Answer :

- (A) Possess negligible volume
- (B) Have forces of attraction between them
- (C) Are polyatomic
- (D) Are not attracted to one another

Right Answer :

Have forces of attraction between them

Question Id : 55

Option Id

- 55001
- 55002
- 55003
- 55004

Right Option Id : 55002

Question 3

according to Boyle's law the volume of a fixed mass of a gas, at constant temperature, is

Answer :

- (A) directly proportional to its pressure
- (B) inversely proportional to its pressure
- (C) the square root of its pressure
- (D) none of these

Right Answer :

inversely proportional to its pressure

Question Id : 54

Option Id

- 54001
- 54002
- 54003
- 54004

Right Option Id : 54002

Question 4

The root-mean square deviation is also called.....

Answer :

- (A) Mean deviation
- (B) Standard deviation
- (C) Quartile deviation
- (D) None of these

Question Id : 53

Option Id

- 53001
- 53002
- 53003
- 53004

**Right Answer :**  
Standard deviation

**Right Option Id : 53002**

**Question 5**

What does ' $\theta$ ' represent in Bragg's Law?

Answer :

- (A) The angle of incidence of X-rays
- (B) The angle of reflection of X-rays
- (C) The angle of diffraction of X-rays
- (D) The angle of refraction of X-rays

**Question Id : 52**

Option Id

- 52001
- 52002
- 52003
- 52004

**Right Answer :**

The angle of incidence of X-rays

**Right Option Id : 52001**

**Question 6**

X-rays have larger wavelengths than which of the following?

Answer :

- (A) Gamma rays
- (B) Beta rays
- (C) Microwave
- (D) Visible light

**Question Id : 51**

Option Id

- 51001
- 51002
- 51003
- 51004

**Right Answer :**

Gamma rays

**Right Option Id : 51001**

**Question 7**

Minimum interplanar spacing required for Bragg's diffraction is:

Answer :

- (A)  $\lambda/4$
- (B)  $\lambda/2$
- (C)  $\lambda$
- (D)  $2\lambda$

**Question Id : 50**

Option Id

- 50001
- 50002
- 50003
- 50004

**Right Answer :**

$\lambda/2$

**Right Option Id : 50002**

**Question 8**

The study of reaction kinetics is called \_\_\_\_\_

Answer :

- (A) Rate of reaction
- (B) Mechanism of reaction
- (C) Factors which affect the rate of reaction
- (D) All of the mentioned

**Question Id : 49**

Option Id

- 49001
- 49002
- 49003
- 49004

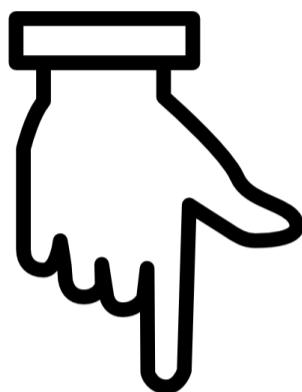
**Right Answer :**

All of the mentioned

**Right Option Id : 49004**



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**Question 9**

Plotting a graph between temperature and reaction rates can reveal the temperature dependence of reaction rates.

Answer :

- (A) Concentration of reactants and temperature
- (B) Concentration of products and temperature
- (C) Rate constant and temperature
- (D) Rate of catalysis and temperature

**Right Answer :**

Rate constant and temperature

**Question Id : 48**

Option Id

- 48001
- 48002
- 48003
- 48004

**Right Option Id : 48003**

**Question 10**

A radioactive decay is always considered as

Answer :

- (A) Zero order reaction
- (B) First order Reaction
- (C) Both the above
- (D) Second order reaction

**Right Answer :**

First order Reaction

**Question Id : 47**

Option Id

- 47001
- 47002
- 47003
- 47004

**Right Option Id : 47002**

**Question 11**

The ratio of the rate constant of a reaction at two temperatures differing by \_\_\_\_\_ °C is called temperature coefficient of reaction.

Answer :

- (A) 2
- (B) 10
- (C) 100
- (D) 50

**Right Answer :**

10

**Question Id : 46**

Option Id

- 46001
- 46002
- 46003
- 46004

**Right Option Id : 46002**

**Question 12**

In a dilute solution, any colligative property depends on

Answer :

- (A) The total number of neutral species in the solution
- (B) The total number of ionic species in the solution
- (C) The total number of species irrespective of whether they are ionic or non-ionic.
- (D) The types of forces operating between the non-ionic species, ionic species and the solvent molecules

**Right Answer :**

The total number of species irrespective of whether they are ionic or non-ionic.

**Question Id : 45**

Option Id

- 45001
- 45002
- 45003
- 45004

**Right Option Id : 45003**

**Question 13**

Molarity of a solution is expressed as:

Answer :

**Question Id : 44**

Option Id

(A) the number of moles of a solute present in one litre of the solution.

44001

(B) the number of moles of a solute present in 1000 gm of the solvent.

44002

(C) the number of gram equivalent of solute present in one litre of solution.

44003

(D) the ratio of the number of moles of solute to the total number of moles of solution.

44004

**Right Answer :**

the number of moles of a solute present in one litre of the solution.

**Right Option Id : 44001**

**Question 14**

Which one of the following is not a colligative property?

Answer :

(A) Osmotic pressure.

Option Id

43001

(B) Elevation in boiling point.

43002

(C) Freezing point.

43003

(D) Depression in freezing point.

43004

**Right Answer :**

Freezing point.

**Right Option Id : 43003**

**Question 15**

The enthalpy of formation is nonzero for

Answer :

(A)  $O_2$

Option Id

42001

(B) Cu

42002

(C)  $O_3$

42003

(D)  $H^+$

42004

**Right Answer :**

$O_3$

**Right Option Id : 42003**

**Question 16**

The enthalpy of an exothermic reaction

Answer :

(A) Is always Positive

Option Id

41001

(B) Is always negative

41002

(C) Is always zero

41003

(D) May be positive or negative

41004

**Right Answer :**

Is always negative

**Right Option Id : 41002**

**Question 17**

Helmholtz free energy is called

Answer :

(A) Power function

Option Id

56001

(B) Work function

56002

(C) Gibbs function

56003

**Question Id : 56**

(D) None of these

56004

**Right Answer :**

Work function

**Right Option Id : 56002**

**Question 18**

At a certain temperature, 50% of HI dissociates into  $H_2$  and  $I_2$ . The equilibrium constant is

Answer :

(A) 1.0

(B) 3.0

(C) 0.5

(D) 0.25

**Question Id : 57**

Option Id

57001

57002

57003

57004

**Right Answer :**

0.25

**Right Option Id : 57004**

**Question 19**

According to Le Chatelier's principle, adding heat to a system of solid and liquid at equilibrium will cause the

Answer :

(A) Amount of solid to decrease

(B) Amount of liquid to decrease

(C) Temperature to rise

(D) Temperature to fall

**Question Id : 58**

Option Id

58001

58002

58003

58004

**Right Answer :**

Amount of solid to decrease

**Right Option Id : 58001**

**Question 20**

In a reversible reaction, if the concentration of reactants are doubled, the equilibrium constant K will

Answer :

(A) Change to  $\frac{1}{4}$  K

(B) Change to  $\frac{1}{2}$  K

(C) Change to 2K

(D) Remain the same

**Question Id : 67**

Option Id

67001

67002

67003

67004

**Right Answer :**

Remain the same

**Right Option Id : 67004**

**Question 21**

How is the distribution among two or more phases at equilibrium determined by?

Answer :

(A) Application of entropy

(B) Application of Newton's laws of motion

(C) Application of Gibbs free energy

(D) Application of force

**Question Id : 73**

Option Id

73001

73002

73003

73004

**Right Answer :**

Application of Gibbs free energy

**Right Option Id : 73003**

**Question 22**

At equilibrium the total Gibb's free energy for all phases is

Answer :

- (A) Minimum
- (B) Maximum
- (C) Infinity
- (D) Zero

**Question Id : 72**

Option Id

- 72001
- 72002
- 72003
- 72004

**Right Answer :**

Minimum

**Right Option Id : 72001**

**Question 23**

For a liquid-liquid case, what is phase equilibrium ratio?

Answer :

- (A) Ratio of mole fractions of species in two phases at equilibrium
- (B) Ratio of distribution or partition coefficient
- (C) Ratio of equilibrium constant
- (D) Ratio of heat of supply

**Question Id : 71**

Option Id

- 71001
- 71002
- 71003
- 71004

**Right Answer :**

Ratio of distribution or partition coefficient

**Right Option Id : 71002**

**Question 24**

Which of the following is incorrect at equilibrium?

Answer :

- (A) There is no net transfer of electrons, so  $E = 0$ .
- (B) There is no net transfer of electrons, so  $E^\circ = 0$ .
- (C)  $Q > K$ .
- (D)  $Q < K$ .

**Question Id : 70**

Option Id

- 70001
- 70002
- 70003
- 70004

**Right Answer :**

There is no net transfer of electrons, so  $E^\circ = 0$ .

**Right Option Id : 70002**

**Question 25**

Which of the following relation is correct?

Answer :

- (A)  $F = Q n$
- (B)  $n = Q$
- (C)  $Q = nF$
- (D)  $Q = n2F$

**Question Id : 69**

Option Id

- 69001
- 69002
- 69003
- 69004

**Right Answer :**

$Q = nF$

**Right Option Id : 69003**

**Question 26**

**Question Id : 68**

The unit of specific conductance ( $\kappa$ ) is

Answer :

- (A) Ohm cm
- (B)  $\text{ohm}^{-1} \text{cm}^{-1}$
- (C)  $\text{ohm}^{-1}\text{cm}$
- (D)  $\text{ohm cm}^{-1}$

Option Id

- 68001
- 68002
- 68003
- 68004

**Right Answer :**

$\text{ohm}^{-1} \text{cm}^{-1}$

**Right Option Id : 68002**

**Question 27**

What is the increasing order for the values of  $e/m$  for

Answer :

- (A)  $e, p, n, \alpha$
- (B)  $n, p, e, \alpha$
- (C)  $n, p, \alpha, e$
- (D)  $n, \alpha, p, e$

**Question Id : 66**

Option Id

- 66001
- 66002
- 66003
- 66004

**Right Answer :**

$n, \alpha, p, e$

**Right Option Id : 66004**

**Question 28**

Atomic number of an atom will be

Answer :

- (A) Number of electrons.
- (B) Number of protons.
- (C) Number of electrons and protons.
- (D) Number of protons and neutrons.

**Question Id : 59**

Option Id

- 59001
- 59002
- 59003
- 59004

**Right Answer :**

Number of protons.

**Right Option Id : 59002**

**Question 29**

Nickel has atomic number 28. The correct electronic configuration is

Answer :

- (A)  $1s_2 2s_2 2p_4 3s_2 3p_8 3d_{10}$
- (B)  $1s_2 2s_2 2p_6 3s_2 3p_6 3d_8 4s_2$
- (C)  $1s_2 2s_2 2p_4 3s_2 3p_6 4s_2$
- (D)  $1s_2 2s_2 3s_2 3p_8 3d_{10}$

**Question Id : 65**

Option Id

- 65001
- 65002
- 65003
- 65004

**Right Answer :**

$1s_2 2s_2 2p_6 3s_2 3p_6 3d_8 4s_2$

**Right Option Id : 65002**

**Question 30**

According to Moseley, a straight-line graph is obtained on plotting

Answer :

- (A) The frequencies of characteristic X-rays of elements against their atomic numbers.

**Question Id : 64**

Option Id

- 64001

- (B) The square of the frequencies of characteristic X-rays of elements against their atomic numbers  64002
- (C) The square root of the frequencies of characteristic X-rays of elements against their atomic numbers  64003
- (D) The reciprocal of the frequencies of characteristic X-rays of elements against their atomic numbers  64004

**Right Answer :**

The square root of the frequencies of characteristic X-rays of elements against their atomic numbers

**Right Option Id : 64003**

**Question 31**

The tenth element in the periodic table resides in:

Answer :

- (A) the second period
- (B) the fourth period
- (C) the fifth period
- (D) the eight period

**Right Answer :**  
the second period

**Question Id : 63**

Option Id

- 63001
- 63002
- 63003
- 63004

**Right Option Id : 63001**

**Question 32**

Which of the following order is not in accordance with the property stated against it?

Answer :

- (A)  $F > Cl > Br > I$  Oxidising Power
- (B)  $HI > HBr > HCl > HF$  Acidic property in water
- (C)  $F > Cl > Br > I$  Electronegativity
- (D)  $F > Cl > Br > I$  Bond dissociation energy

**Right Answer :**  
 $F > Cl > Br > I$  Bond dissociation energy

**Question Id : 62**

Option Id

- 62001
- 62002
- 62003
- 62004

**Right Option Id : 62004**

**Question 33**

The correct order of increasing electron gain enthalpy with a negative sign for the elements O, S, F, and Cl is :

Answer :

- (A)  $Cl < F < S < O$
- (B)  $O < S < F < Cl$
- (C)  $F < S < O < Cl$
- (D)  $S < O < Cl < F$

**Right Answer :**  
 $Cl < F < S < O$

**Question Id : 61**

Option Id

- 61001
- 61002
- 61003
- 61004

**Right Option Id : 61001**

**Question 34**

The maximum number of  $90^\circ$  angles between bond pair-bond pair of electrons is observed in

Answer :

- (A)  $dsp^2$  Hybridisation
- (B)  $sp^3d$  Hybridisation
- (C)  $dsp^3$  Hybridisation

**Question Id : 60**

Option Id

- 60001
- 60002
- 60003

(D)  $sp^3d^2$  Hybridisation

60004

**Right Answer :**

$sp^3d^2$  Hybridisation

**Right Option Id : 60004**

**Question 35**

The shape of the molecule depends on the \_\_\_\_\_

Answer :

- (A) adjacent atom
- (B) valence electrons
- (C) surroundings
- (D) atmosphere

**Question Id : 40**

Option Id

- 40001
- 40002
- 40003
- 40004

**Right Answer :**

valence electrons

**Right Option Id : 40002**

**Question 36**

In NaCl crystal, the radius ratio is :

Answer :

- (A) 0.4
- (B) 0.98
- (C) 1.0
- (D) 0.52

**Question Id : 39**

Option Id

- 39001
- 39002
- 39003
- 39004

**Right Answer :**

0.52

**Right Option Id : 39004**

**Question 37**

Which of the following is Not a structure insensitive property?

Answer :

- (A) Elastic modulus
- (B) Melting point
- (C) Coefficient of thermal expansion
- (D) Electrical resistivity

**Question Id : 38**

Option Id

- 38001
- 38002
- 38003
- 38004

**Right Answer :**

Electrical resistivity

**Right Option Id : 38004**

**Question 38**

Which of the enlisted compounds is termed as slaked lime?

Answer :

- (A) Calcium Oxide
- (B) Calcium Hydroxide
- (C) Calcium Sulphate
- (D) Calcium Carbonate

**Question Id : 37**

Option Id

- 37001
- 37002
- 37003
- 37004

**Right Answer :**

Calcium Hydroxide

**Right Option Id : 37002**

**Question 39**

Which of the following is true about interhalogen compounds?

Answer :

- (A) They have unpaired electrons
- (B) They are highly stable
- (C) They are diamagnetic
- (D) They are paramagnetic

**Right Answer :**

They are diamagnetic

**Question Id : 17**

Option Id

- 17001
- 17002
- 17003
- 17004

**Right Option Id : 17003**

**Question 40**

Which of the following elements does not belong to group 16 of the periodic table?

Answer :

- (A) Oxygen
- (B) Phosphorus
- (C) Sulphur
- (D) Selenium

**Right Answer :**

Phosphorus

**Question Id : 16**

Option Id

- 16001
- 16002
- 16003
- 16004

**Right Option Id : 16002**

**Question 41**

Which groups of elements are called d-block elements in modern periodic table ?

Answer :

- (A) 1 to 2
- (B) 3 to 10
- (C) 3 to 12
- (D) 13 to 18

**Right Answer :**

3 to 10

**Question Id : 15**

Option Id

- 15001
- 15002
- 15003
- 15004

**Right Option Id : 15002**

**Question 42**

Which block elements are more electropositive in modern periodic table?

Answer :

- (A) s
- (B) p
- (C) d
- (D) f

**Right Answer :**

s

**Question Id : 14**

Option Id

- 14001
- 14002
- 14003
- 14004

**Right Option Id : 14003**

**Question 43**

Which block elements are less electropositive in modern periodic table ?

**Question Id : 13**

Answer :

(A) s

(B) p

(C) d

(D) f

Option Id

13001

13002

13003

13004

**Right Answer :**

p

**Right Option Id : 13002**

**Question 44**

The oxygen molecule is paramagnetic. It can be explained by

Answer :

(A) Resonance

(B) Hybridisation

(C) Valence bond theory

(D) Molecular orbital theory

**Question Id : 12**

Option Id

12001

12002

12003

12004

**Right Answer :**

Molecular orbital theory

**Right Option Id : 12004**

**Question 45**

According to Werner's theory of coordination compounds,

Answer :

(A) Primary valency is ionizable

(B) Secondary valency is ionizable

(C) Primary and secondary valences are ionizable

(D) Neither primary nor secondary valency is ionizable

**Question Id : 11**

Option Id

11001

11002

11003

11004

**Right Answer :**

Primary valency is ionizable

**Right Option Id : 11001**

**Question 46**

Which of the following compound is paramagnetic?

Answer :

(A) Hexa amine chromium (III) ion

(B) Tetraamminezinc (II) ion

(C) Tetracyanonickelate (II) ion

(D) Diammine silver (I) ion

**Question Id : 10**

Option Id

10001

10002

10003

10004

**Right Answer :**

Hexa amine chromium (III) ion

**Right Option Id : 10001**

**Question 47**

As per Arrhenius Concept, Weak Acid among These is\_\_\_?

Answer :

(A) HCL

(B) HNO<sub>3</sub>

**Question Id : 9**

Option Id

9001

9002

(C) HCN

9003

(D) H<sub>2</sub>SO<sub>4</sub>

9004

**Right Answer :**

HCN

**Right Option Id : 9003**

**Question 48**

As per the Bronsted and Lowry Concept, a Base is a Substance that\_\_\_

Answer :

(A) Accepts proton

(B) Donates proton

(C) Accepts neutron

(D) Donates neutron

**Question Id : 8**

Option Id

8001

8002

8003

8004

**Right Answer :**

Accepts proton

**Right Option Id : 8001**

**Question 49**

Which of the following species can act as Lewis Base?

Answer :

(A) Negatively charged species or Anions and Neutral Species with one lone pair of electrons

(B) Positively charged species or Cations and Neutral Species with one lone pair of electrons

(C) Molecules in which the central atom has incomplete octet

(D) Simple cations

**Question Id : 7**

Option Id

7001

7002

7003

7004

**Right Answer :**

Negatively charged species or Anions and Neutral Species with one lone pair of electrons

**Right Option Id : 7001**

**Question 50**

Which of the following gases is not a green house gas?

Answer :

(A) CO

(B) O<sub>3</sub>

(C) CH<sub>4</sub>

(D) H<sub>2</sub>O vapour

**Question Id : 6**

Option Id

6001

6002

6003

6004

**Right Answer :**

CO

**Right Option Id : 6001**

**Question 51**

Photochemical smog occurs in warm, dry and sunny climate. One of the following is not amongst the components of photochemical smog, identify it.

Answer :

(A) NO<sub>2</sub>

(B) O<sub>3</sub>

(C) SO<sub>2</sub>

(D) Unsaturated hydrocarbon

**Question Id : 5**

Option Id

5001

5002

5003

5004

**Right Answer :**

SO<sub>2</sub>

**Right Option Id : 5003**

**Question 52**

Which of the following statements is not true about classical smog?

Answer :

- (A) Its main components are produced by the action of sunlight on emissions of automobiles and factories.
- (B) Produced in cold and humid climate.
- (C) It contains compounds of reducing nature.
- (D) It contains smoke, fog and sulphur dioxide.

**Question Id : 4**

Option Id

- 4001
- 4002
- 4003
- 4004

**Right Answer :**

Its main components are produced by the action of sunlight on emissions of automobiles and factories.

**Right Option Id : 4001**

**Question 53**

Biochemical Oxygen Demand, (BOD) is a measure of organic material present in water. BOD value less than 5 ppm indicates a water sample to be \_\_\_\_\_.

Answer :

- (A) rich in dissolved oxygen.
- (B) poor in dissolved oxygen
- (C) highly polluted.
- (D) not suitable for aquatic life.

**Question Id : 3**

Option Id

- 3001
- 3002
- 3003
- 3004

**Right Answer :**

rich in dissolved oxygen.

**Right Option Id : 3001**

**Question 54**

An sp<sup>3</sup> hybrid orbital possesses

Answer :

- (A) One-fourth's character
- (B) One-half's character
- (C) One-third's character
- (D) two-third's character

**Question Id : 18**

Option Id

- 18001
- 18002
- 18003
- 18004

**Right Answer :**

One-fourth's character

**Right Option Id : 18001**

**Question 55**

Which of the following molecules has the shortest carbon-carbon bond length?

Answer :

- (A) Dimond
- (B) Ethane
- (C) Benzene
- (D) Acetylene

**Question Id : 2**

Option Id

- 2001
- 2002
- 2003
- 2004

**Right Answer :**

Acetylene

**Right Option Id : 2004**

**Question 56**

The nature of intermolecular forces among Benzene molecule is

Answer :

- (A) Dipole attraction
- (B) Dispersion forces
- (C) ion dipole attraction
- (D) hydrogen bonding

**Right Answer :**

Dispersion forces

**Question Id : 19**

Option Id

- 19001
- 19002
- 19003
- 19004

**Right Option Id : 19002**

**Question 57**

The resonance stabilization is highest in

Answer :

- (A) 1,3-butadiene
- (B) Cyclobutadiene
- (C) 1,3-cyclohexadiene
- (D) Benzene

**Right Answer :**

Benzene

**Question Id : 21**

Option Id

- 21001
- 21002
- 21003
- 21004

**Right Option Id : 21004**

**Question 58**

Completely conjugated monocyclic hydrocarbons are called

Answer :

- (A) Arenes
- (B) Allenes
- (C) Annulenes
- (D) cumulenes

**Right Answer :**

Annulenes

**Question Id : 36**

Option Id

- 36001
- 36002
- 36003
- 36004

**Right Option Id : 36003**

**Question 59**

Which of the following is the most reactive towards nucleophiles?

Answer :

- (A) Acetaldehyde
- (B) Acetyl chloride
- (C) Acetic anhydride
- (D) Methyl acetate

**Right Answer :**

Acetyl chloride

**Question Id : 35**

Option Id

- 35001
- 35002
- 35003
- 35004

**Right Option Id : 35002**

**Question 60**

The modern explanation of the Markovnikov rule regarding the addition product accepts the stability of the intermediate

**Question Id : 34**

Answer :

- (A) Carbon radical
- (B) Carbocation
- (C) Carbanion
- (D) Carbene

Option Id

- 34001
- 34002
- 34003
- 34004

**Right Answer :**

Carbocation

**Right Option Id : 34002**

**Question 61**

The compound which can show both geometrical isomerism and optical isomerism is

Answer :

- (A) Maleic acid
- (B) Tartaric acid
- (C) Propylene dibromide
- (D) 1,2- dibromo cyclopropane

**Question Id : 33**

Option Id

- 33001
- 33002
- 33003
- 33004

**Right Answer :**

1,2- dibromo cyclopropane

**Right Option Id : 33004**

**Question 62**

Optically active isomers that are not mirror images of each other are called

Answer :

- (A) Enantiomers
- (B) Mesoisomers
- (C) Tautomer's
- (D) diastereomers

**Question Id : 32**

Option Id

- 32001
- 32002
- 32003
- 32004

**Right Answer :**

diastereomers

**Right Option Id : 32004**

**Question 63**

Which of the following objects is chiral?

Answer :

- (A) Hammer
- (B) Ear
- (C) Spoon
- (D) Fork

**Question Id : 31**

Option Id

- 31001
- 31002
- 31003
- 31004

**Right Answer :**

Ear

**Right Option Id : 31002**

**Question 64**

The smallest alkane having a 3° carbon is

Answer :

- (A) Isopentane
- (B) 2,3-dimethylbutane

**Question Id : 30**

Option Id

- 30001
- 30002

(C) 2,2-dimethylpropane

30003

(D) isobutane

30004

**Right Answer :**

isobutane

**Right Option Id : 30004**

**Question 65**

Which of the following would yield a single monohalogen derivative?

Answer :

(A) Propane

Option Id

(B) Cyclopropane

29001

(C) Propene

29002

(D) Propyne

29003

29004

**Right Answer :**

Cyclopropane

**Right Option Id : 29002**

**Question 66**

The carbon-carbon bond in cyclopropane is called

Answer :

(A) sigma bond

Option Id

(B) Pi bond

28001

(C) tau bond

28002

(D) delta bond

28003

28004

**Right Answer :**

tau bond

**Right Option Id : 28003**

**Question 67**

The IUPAC name of t-butyl group is

Answer :

(A) 1,1dimethylethyl

**Question Id : 27**

Option Id

(B) 2-methylpropyl

27001

(C) 1-methylpropyl

27002

(D) 1-methylethyl

27003

27004

**Right Answer :**

1,1dimethylethyl

**Right Option Id : 27001**

**Question 68**

Which of the following reagents would convert 1-butyne into 2-butyne?

Answer :

(A) Ethanolic KOH, heat

Option Id

(B)  $\text{NaNH}_2/\text{NH}_3(\text{l})$

26001

(C) Ammoniacal  $\text{AgNO}_3$

26002

(D) Ammoniacal  $\text{CuCl}$

26003

26004

**Right Answer :**

Ethanollic KOH, heat

**Right Option Id : 26001**

**Question 69**

The presence of unsaturation in an organic compound can be detected by

Answer :

- (A) Schiff's reagent
- (B) Tollens reagents
- (C) Fehling's solution
- (D) Baeyer's reagent

**Question Id : 25**

Option Id

- 25001
- 25002
- 25003
- 25004

**Right Answer :**

Baeyer's reagent

**Right Option Id : 25004**

**Question 70**

The index of hydrogen deficiency (IHD) of benzene is

Answer :

- (A) 2
- (B) 3
- (C) 4
- (D) 6

**Question Id : 24**

Option Id

- 24001
- 24002
- 24003
- 24004

**Right Answer :**

4

**Right Option Id : 24003**

**Question 71**

The nitration of benzene is an example of

Answer :

- (A) Nucleophilic substitution
- (B) Nucleophilic addition
- (C) Electrophilic addition
- (D) Electrophilic substitution

**Question Id : 23**

Option Id

- 23001
- 23002
- 23003
- 23004

**Right Answer :**

Electrophilic substitution

**Right Option Id : 23004**

**Question 72**

Which of the following represents an electrophilic aromatic substitution reaction?

Answer :

- (A) Wurtz reaction
- (B) Friedel craft alkylation
- (C) Kolbe synthesis by electrolysis
- (D) Dehydrohalogenation

**Question Id : 22**

Option Id

- 22001
- 22002
- 22003
- 22004

**Right Answer :**

Friedel craft alkylation

**Right Option Id : 22002**

**Question 73**

Aromatic compounds burn with a sooty flame because

Answer :

- (A) They have a ring structure
- (B) They are reluctant to react with atmospheric oxygen
- (C) They have a relatively high percentage of carbon
- (D) They have a relatively high percentage of hydrogen

**Question Id : 74**

Option Id

- 74001
- 74002
- 74003
- 74004

**Right Answer :**

They have a relatively high percentage of carbon

**Right Option Id : 74003****Question 74**

The rate of nitration of phenol is

Answer :

- (A) Slower than that of benzene
- (B) Much faster than that of benzene
- (C) Equal to that of benzene
- (D) Almost zero

**Question Id : 20**

Option Id

- 20001
- 20002
- 20003
- 20004

**Right Answer :**

Much faster than that of benzene

**Right Option Id : 20002****Question 75**

which of the following does not produce a white precipitate of AgCl on warming with alcoholic silver nitrate?

Answer :

- (A) Allyl Chloride
- (B) t-butyl chloride
- (C) Benzyl chloride
- (D) Vinyl chloride

**Question Id : 75**

Option Id

- 75001
- 75002
- 75003
- 75004

**Right Answer :**

Vinyl chloride

**Right Option Id : 75004****Question 76**

Which of the following will react with water?

Answer :

- (A)  $\text{CHCl}_3$
- (B)  $\text{Cl}_3\text{CCHO}$
- (C)  $\text{CCl}_4$
- (D)  $\text{ClCH}_2\text{CH}_2\text{Cl}$

**Question Id : 78**

Option Id

- 78001
- 78002
- 78003
- 78004

**Right Answer :**

$\text{CHCl}_3$

**Right Option Id : 78001****Question 77**

Reaction of ethyl benzoate with an excess of Phenyl magnesium bromide in dry ether and subsequent hydrolysis produces

Answer :

- (A) Benzophenone

**Question Id : 92**

Option Id

- (B) propiophenone  
(C) Diphenylmethanol  
(D) triphenylmethanol

- 92001  
 92002  
 92003  
 92004

**Right Answer :**  
triphenylmethanol

**Right Option Id : 92004**

**Question 78**

which one of the following compounds is most readily hydrolyzed by  $S_N1$  mechanism?

Answer :

- (A)  $CH_3CH=CH-Cl$   
(B)  $CH_2=CHCH_2Cl$   
(C)  $(C_6H_5)_3C-Cl$   
(D)  $C_6H_5CH_2Cl$

**Right Answer :**  
 $(C_6H_5)_3C-Cl$

**Question Id : 93**

Option Id

- 93001  
 93002  
 93003  
 93004

**Right Option Id : 93003**

**Question 79**

Benzaldehyde reacts with  $PCl_5$  to give

Answer :

- (A) Benzyl Chloride  
(B) Benzo trichloride  
(C) Benzal chloride  
(D) chlorobenzene

**Right Answer :**  
Benzyl Chloride

**Question Id : 94**

Option Id

- 94001  
 94002  
 94003  
 94004

**Right Option Id : 94001**

**Question 80**

Methanol can be distinguished from ethanol by

Answer :

- (A) Sodium  
(B) Lucas reagent  
(C) Tollens reagent  
(D)  $I_2$  and NaOH

**Right Answer :**  
 $I_2$  and NaOH

**Question Id : 97**

Option Id

- 97001  
 97002  
 97003  
 97004

**Right Option Id : 97004**

**Question 81**

Piperidine is a

Answer :

- (A) homocyclic compound  
(B) heterocyclic aromatic compound  
(C) nonaromatic heterocyclic compound

**Question Id : 96**

Option Id

- 96001  
 96002  
 96003

(D) acyclic compound

96004

**Right Answer :**

nonaromatic heterocyclic compound

**Right Option Id : 96003**

**Question 82**

Ethyl amine can be prepared by the action of  $\text{Br}_2$  and NaOH solution on

Answer :

(A) acetamide

(B) propionamide

(C) formamide

(D) methyl cyanide

**Question Id : 91**

Option Id

91001

91002

91003

91004

**Right Answer :**

propionamide

**Right Option Id : 91002**

**Question 83**

The aromaticity of the following heterocycles follows the order

Answer :

(A) Thiophene > pyrrole > furan > pyridine

(B) Furan > pyrrole > thiophene > pyridine

(C) Pyridine > thiophene > Pyrrole > furan

(D) Pyridine > furan > Pyrrole > thiophene

**Question Id : 98**

Option Id

98001

98002

98003

98004

**Right Answer :**

Pyridine > thiophene > Pyrrole > furan

**Right Option Id : 98003**

**Question 84**

Which one amongst the following compounds is the least basic?

Answer :

(A) Piperidine

(B) Pyridine

(C) Pyrrole

(D) Quinoline

**Question Id : 99**

Option Id

99001

99002

99003

99004

**Right Answer :**

Pyrrole

**Right Option Id : 99003**

**Question 85**

Which of the following compounds gives a secondary alcohol upon reaction with methyl magnesium bromide?

Answer :

(A) Butyl formate

(B) 3- pentanone

(C) Pentanal

(D) Methyl butanoate

**Question Id : 100**

Option Id

100001

100002

100003

100004

**Right Answer :**

Pentanal

**Right Option Id : 100003**

**Question 86**

Which is not present in Grignard reagent?

Answer :

- (A) Methyl group
- (B) Magnesium
- (C) Halogen
- (D) -COOH group

**Right Answer :**

-COOH group

**Question Id : 95**

Option Id

- 95001
- 95002
- 95003
- 95004

**Right Option Id : 95004**

**Question 87**

Which of the following compounds does not give a tertiary alcohol upon reaction with methyl magnesium bromide?

Answer :

- (A) 3-methylpentanal
- (B) Ethyl benzoate
- (C) 4,4-dimethylcyclohexanone
- (D) 4-heptanone

**Right Answer :**

4-heptanone

**Question Id : 90**

Option Id

- 90001
- 90002
- 90003
- 90004

**Right Option Id : 90004**

**Question 88**

The protein which transports oxygen in the bloodstream is

Answer :

- (A) Haemoglobin
- (B) insulin
- (C) Albumin
- (D) collagen

**Right Answer :**

Haemoglobin

**Question Id : 77**

Option Id

- 77001
- 77002
- 77003
- 77004

**Right Option Id : 77001**

**Question 89**

The secondary structures of proteins of silk and wool are

Answer :

- (A)  $\alpha$ -helix and  $\beta$ -pleated sheet respectively
- (B)  $\beta$ -pleated sheet and  $\alpha$ -helix respectively
- (C) both  $\alpha$ -helix
- (D) both  $\beta$ -pleated sheet

**Right Answer :**

$\beta$ -pleated sheet and  $\alpha$ -helix respectively

**Question Id : 88**

Option Id

- 88001
- 88002
- 88003
- 88004

**Right Option Id : 88002**

**Question 90**

**Question Id : 87**

Formation of soap from a fat by reaction with caustic soda involves

Answer :

- (A) hydrolysis
- (B) polymerization
- (C) Esterification
- (D) condensation

Option Id

- 87001
- 87002
- 87003
- 87004

**Right Answer :**

hydrolysis

**Right Option Id : 87001**

**Question 91**

Turpentine is an essential oil obtained from

Answer :

- (A) camphor tree
- (B) Pine tree
- (C) Lemon tree
- (D) palm tree

**Question Id : 89**

Option Id

- 89001
- 89002
- 89003
- 89004

**Right Answer :**

Pine tree

**Right Option Id : 89002**

**Question 92**

Among the following which one has the least iodine number?

Answer :

- (A) Sunflower oil
- (B) Corn oil
- (C) Ghee
- (D) Peanut oil

**Question Id : 86**

Option Id

- 86001
- 86002
- 86003
- 86004

**Right Answer :**

Ghee

**Right Option Id : 86003**

**Question 93**

Which of the following gives maximum energy in a metabolic process?

Answer :

- (A) Carbohydrates
- (B) Proteins
- (C) Fats
- (D) Vitamins

**Question Id : 85**

Option Id

- 85001
- 85002
- 85003
- 85004

**Right Answer :**

Fats

**Right Option Id : 85003**

**Question 94**

The polymers that cannot form intermolecular hydrogen bond are

Answer :

- (A) Nylon 6
- (B) Polythene

**Question Id : 84**

Option Id

- 84001

- (C) Proteins  
(D) Nylon 6,6

- 84002  
 84003  
 84004

**Right Answer :**  
Polythene

**Right Option Id : 84002**

**Question 95**

Among the following which one is homopolymers

Answer :

- (A) Bakelite  
(B) Terylene  
(C) 6,6  
(D) Neoprene

**Question Id : 76**

Option Id

- 76001  
 76002  
 76003  
 76004

**Right Answer :**  
Neoprene

**Right Option Id : 76004**

**Question 96**

The catalyst used in the manufacture of polyethylene by Ziegler-Natta process is

Answer :

- (A) Triphenylaluminium and titanium tetrachloride  
(B) Triethylaluminium and titanium tetrachloride  
(C) Titanium dioxide  
(D) Titanium isopropoxide

**Question Id : 83**

Option Id

- 83001  
 83002  
 83003  
 83004

**Right Answer :**  
Triethylaluminium and titanium tetrachloride

**Right Option Id : 83002**

**Question 97**

Which of the following is used as defoliant?

Answer :

- (A) Gammexene  
(B) DDT  
(C) 2,4-dichlorophenoxyacetic acid  
(D) Acetylsalicylic acid

**Question Id : 82**

Option Id

- 82001  
 82002  
 82003  
 82004

**Right Answer :**  
2,4-dichlorophenoxyacetic acid

**Right Option Id : 82003**

**Question 98**

Which of the following is not a semisynthetic polymer?

Answer :

- (A) cis-polyisoprene  
(B) Cellulose nitrate  
(C) Cellulose acetate  
(D) Vulcanised rubber

**Question Id : 81**

Option Id

- 81001  
 81002  
 81003  
 81004

**Right Answer :**  
cis-polyisoprene

**Right Option Id : 81001**

**Question 99**

The commercial name of polyacrylonitrile is \_\_\_\_\_.

Answer :

- (A) Dacron
- (B) Orlon (acrilan)
- (C) PVC
- (D) Bakelite

**Question Id : 80**

Option Id

- 80001
- 80002
- 80003
- 80004

**Right Answer :**  
Orlon (acrilan)

**Right Option Id : 80002**

**Question 100**

Which one is acidic dye?

Answer :

- (A) Methyl orange
- (B) Methyl red
- (C) Phenolphthalein
- (D) All of these

**Question Id : 79**

Option Id

- 79001
- 79002
- 79003
- 79004

**Right Answer :**  
All of these

**Right Option Id : 79004**

**Question 101**

The last step in cognitive learning is

Answer :

- (A) information
- (B) analysis
- (C) evaluation
- (D) synthesis

**Question Id : 120**

Option Id

- 120001
- 120002
- 120003
- 120004

**Right Answer :**  
synthesis

**Right Option Id : 120004**

**Question 102**

learning through independent effort is

Answer :

- (A) autonomous learning
- (B) autocratic learning
- (C) democratic learning
- (D) all the above

**Question Id : 121**

Option Id

- 121001
- 121002
- 121003
- 121004

**Right Answer :**  
autonomous learning

**Right Option Id : 121001**

**Question 103**

Bloom's taxonomy explores

Answer :

- (A) cognitive domain
- (B) affective domain
- (C) psychomotor domain
- (D) all the above

**Right Answer :**

all the above

**Question Id : 125**

Option Id

- 125001
- 125002
- 125003
- 125004

**Right Option Id : 125004**

**Question 104**

Knowledge which is related to facts is

Answer :

- (A) conceptual knowledge
- (B) metacognitive knowledge
- (C) procedural knowledge
- (D) factual knowledge

**Right Answer :**

factual knowledge

**Question Id : 123**

Option Id

- 123001
- 123002
- 123003
- 123004

**Right Option Id : 123004**

**Question 105**

Putting together elements to form a new pattern is

Answer :

- (A) analysis
- (B) synthesis
- (C) organisation
- (D) comprehension

**Right Answer :**

organisation

**Question Id : 124**

Option Id

- 124001
- 124002
- 124003
- 124004

**Right Option Id : 124003**

**Question 106**

Example of a psychomotor activity is

Answer :

- (A) performs an experiment
- (B) narrates a story
- (C) demonstrates
- (D) computes result of two experiment

**Right Answer :**

performs an experiment

**Question Id : 119**

Option Id

- 119001
- 119002
- 119003
- 119004

**Right Option Id : 119001**

**Question 107**

The rule of presenting the contents to make them easy is

**Question Id : 117**

Answer :

- (A) method of teaching
- (B) maxims of teaching
- (C) techniques of teaching
- (D) teaching strategies

Option Id

- 117001
- 117002
- 117003
- 117004

**Right Answer :**

maxims of teaching

**Right Option Id : 117002**

**Question 108**

Set induction relates to

Answer :

- (A) previous knowledge
- (B) new knowledge
- (C) specific objectives
- (D) statement of aim

**Question Id : 126**

Option Id

- 126001
- 126002
- 126003
- 126004

**Right Answer :**

previous knowledge

**Right Option Id : 126001**

**Question 109**

A lesson plan is

Answer :

- (A) teachers guide
- (B) ensources activities of the classroom
- (C) helps students to understand the goals
- (D) all the above

**Question Id : 127**

Option Id

- 127001
- 127002
- 127003
- 127004

**Right Answer :**

all the above

**Right Option Id : 127004**

**Question 110**

Theory of education as a branch of applied psychology was developed by

Answer :

- (A) Herbart
- (B) Vygotsky
- (C) Merrill
- (D) Gagne

**Question Id : 128**

Option Id

- 128001
- 128002
- 128003
- 128004

**Right Answer :**

Herbart

**Right Option Id : 128001**

**Question 111**

Dysgraphia is a :

Answer :

- (A) psychological disorder characterized by lack of attention and impulsive behaviour.
- (B) speech disorder characterized by stuttering and errors in articulation.

**Question Id : 129**

Option Id

- 129001
- 129002

(C) locomotor disorder characterized by gross motor impairment.

129003

(D) neurological disorder characterized by trouble in forming letters and shapes.

129004

**Right Answer :**

neurological disorder characterized by trouble in forming letters and shapes.

**Right Option Id : 129004**

**Question 112**

The approach to educating gifted children which moves them through curriculum at an unusually rapid pace is known as:

Answer :

(A) immersion

(B) differentiated instruction

(C) enrichment

(D) acceleration

**Question Id : 108**

Option Id

108001

108002

108003

108004

**Right Answer :**

enrichment

**Right Option Id : 108003**

**Question 113**

Which of the following is a typical characteristic of students having autism?

Answer :

(A) higher level of communication skills

(B) superior ability of differentiating fiction from fact

(C) advanced social-emotional reciprocity

(D) frequent repetitive and recurring behaviour

**Question Id : 130**

Option Id

130001

130002

130003

130004

**Right Answer :**

frequent repetitive and recurring behaviour

**Right Option Id : 130004**

**Question 114**

The most important quality of a good teacher is

Answer :

(A) Good communication skills

(B) Effective leadership qualities

(C) Concern for students' welfare

(D) Sound knowledge of subject matter

**Question Id : 122**

Option Id

122001

122002

122003

122004

**Right Answer :**

Sound knowledge of subject matter

**Right Option Id : 122004**

**Question 115**

On the first day of his class, if a teacher is asked by the students to introduce himself, he should

Answer :

(A) tell them about himself in brief

(B) ask them to meet after the class

(C) ignore the demand and start teaching

(D) scold the student for this unwanted demand

**Question Id : 118**

Option Id

118001

118002

118003

118004

**Right Answer :**

tell them about himself in brief

**Right Option Id : 118001****Question 116**

A good text book should have

Answer :

- (A) Accuracy of language
- (B) According to syllabus
- (C) Purposeful
- (D) All of the above

**Question Id : 115**

Option Id

- 115001
- 115002
- 115003
- 115004

**Right Answer :**

All of the above

**Right Option Id : 115004****Question 117**

Library is-

Answer :

- (A) Formal
- (B) Informal
- (C) Non formal
- (D) None of these

**Question Id : 116**

Option Id

- 116001
- 116002
- 116003
- 116004

**Right Answer :**

Formal

**Right Option Id : 116001****Question 118**

The most important quality of a good teacher is-

Answer :

- (A) Sound knowledge of a subject matter
- (B) Good communication skill
- (C) Effective leadership qualities
- (D) None of these

**Question Id : 101**

Option Id

- 101001
- 101002
- 101003
- 101004

**Right Answer :**

Sound knowledge of a subject matter

**Right Option Id : 101001****Question 119**

Which of the following qualities are considered most essential for a teacher

Answer :

- (A) should be an expert of the subject
- (B) should have lots of patience
- (C) Both A & B
- (D) None of these

**Question Id : 102**

Option Id

- 102001
- 102002
- 102003
- 102004

**Right Answer :**

Both A & B

**Right Option Id : 102003**

**Question 120**

Which of the following teacher, will be liked most?

Answer :

- (A) A teacher who often amuses his students
- (B) A loving teacher
- (C) A teacher of high idealistic attitude
- (D) None of these

**Right Answer :**

A loving teacher

**Question Id : 104**

Option Id

- 104001
- 104002
- 104003
- 104004

**Right Option Id : 104002**

**Question 121**

Evaluation is-

Answer :

- (A) Continuous process
- (B) Periodic process
- (C) Half-yearly process
- (D) Annual process

**Right Answer :**

Continuous process

**Question Id : 105**

Option Id

- 105001
- 105002
- 105003
- 105004

**Right Option Id : 105001**

**Question 122**

Comprehensive process at Judging is-

Answer :

- (A) Assessment
- (B) Measurement
- (C) Evaluation
- (D) Examination

**Right Answer :**

Evaluation

**Question Id : 106**

Option Id

- 106001
- 106002
- 106003
- 106004

**Right Option Id : 106003**

**Question 123**

What type of Test is summative evaluation?

Answer :

- (A) Teacher-made Test
- (B) External Test
- (C) Internal Test
- (D) All of the above

**Right Answer :**

All of the above

**Question Id : 107**

Option Id

- 107001
- 107002
- 107003
- 107004

**Right Option Id : 107004**

**Question 124**

The Principle of curriculum is not based upon-----

Answer :

**Question Id : 103**

Option Id

(A) Child

103001

(B) Activity

103002

(C) Community Life

103003

(D) Family Life

103004

**Right Answer :**

Family Life

**Right Option Id : 103004**

**Question 125**

Which of the following is not an element of the curriculum?

Answer :

(A) Objective

Option Id

109001

(B) Content

109002

(C) Teacher

109003

(D) Evaluation

109004

**Right Answer :**

Teacher

**Right Option Id : 109003**

**Question 126**

Mini culture in school is-

Answer :

(A) Family

Option Id

110001

(B) Home

110002

(C) Classroom

110003

(D) Syllabus

110004

**Right Answer :**

Classroom

**Right Option Id : 110003**

**Question 127**

The fundamental principles of counselling are-

Answer :

(A) Autonomy

Option Id

111001

(B) Justice

111002

(C) Fidelity

111003

(D) All the above

111004

**Right Answer :**

All the above

**Right Option Id : 111004**

**Question 128**

At present the most effective mode of learning is -

Answer :

(A) Self learning

Option Id

112001

(B) Face to face learning

112002

(C) Blendid learning

112003

**Question Id : 112**

(D) All the above

112004

**Right Answer :**

Blendid learning

**Right Option Id : 112003**

**Question 129**

The best way of learning is-

Answer :

(A) Seeing

(B) Writing

(C) Doing

(D) Reading

**Question Id : 113**

Option Id

113001

113002

113003

113004

**Right Answer :**

Doing

**Right Option Id : 113003**

**Question 130**

3 Dimensional teaching aid is

Answer :

(A) Black board

(B) Model

(C) Chart

(D) All of the above

**Question Id : 114**

Option Id

114001

114002

114003

114004

**Right Answer :**

Model

**Right Option Id : 114002**

**Question 131**

The East India Association was set up in :

Answer :

(A) 1866

(B) 1857

(C) 1836

(D) 1885

**Question Id : 149**

Option Id

149001

149002

149003

149004

**Right Answer :**

1866

**Right Option Id : 149001**

**Question 132**

Which among the following is the origin of the Damodar river ?

Answer :

(A) Greater Himalaya

(B) Kumaon Himalaya

(C) Sahyadri hills

(D) Chota nagpur

**Question Id : 148**

Option Id

148001

148002

148003

148004

**Right Answer :**

Chota nagpur

**Right Option Id : 148004**

**Question 133**

What was the period of India's First Five Year Plan?

Answer :

- (A) 1951-56
- (B) 1961-66
- (C) 1969-1974
- (D) 1979-1984

**Question Id : 147**

Option Id

- 147001
- 147002
- 147003
- 147004

**Right Answer :**

1951-56

**Right Option Id : 147001**

**Question 134**

During Salt Satyagraha, in Bihar, in addition to making salt, the people chose to oppose the government by opposing which tax?

Answer :

- (A) Chowkidari
- (B) Haathi
- (C) Development
- (D) Malba

**Question Id : 146**

Option Id

- 146001
- 146002
- 146003
- 146004

**Right Answer :**

Chowkidari

**Right Option Id : 146001**

**Question 135**

Saur Revolution, which was seen in the news, is associated with which country?

Answer :

- (A) USA
- (B) Afghanistan
- (C) Germany
- (D) Russia

**Question Id : 145**

Option Id

- 145001
- 145002
- 145003
- 145004

**Right Answer :**

Afghanistan

**Right Option Id : 145002**

**Question 136**

Match Column A and Column B:

Column A Column B

- A. Cumin I. Appears like a nail
- B. Saffron II. Originated in South America
- C. Chillies III. Yellow in Colour
- D. Clove IV. Small but fragrant

Answer :

- (A) A-IV, B-I, C-III, D-II
- (B) A-I, B-III, C-II, D-IV
- (C) A-IV, B-III, C-II, D-I
- (D) A-III, B-IV, C-I, D-II

**Question Id : 144**

Option Id

- 144001
- 144002
- 144003
- 144004

**Right Answer :**

A-IV, BIII, C-II, D-I

**Right Option Id : 144003**

**Question 137**

The coastal State/Union Territory of Bay of Bengal is:

Answer :

- (A) Telangana
- (B) Odisha
- (C) Karnataka
- (D) Kerala

**Question Id : 143**

Option Id

- 143001
- 143002
- 143003
- 143004

**Right Answer :**

Odisha

**Right Option Id : 143002**

**Question 138**

Consider the following Statements about forests:

- A. 'Torang' Means forest in Kuduk Language.
- B. The Village Council (Panchayat) in Jharkhand decides which family will get how much land for farming, by lottery.
- C. The Right to Forest Act, 2007 gives the rights to people who have been living in the forest for at least 15 Years.
- D. About three-fourth people in Mizoram are linked to the forests.

Answer :

- (A) A and D
- (B) B and C
- (C) A and C
- (D) A and B

**Question Id : 142**

Option Id

- 142001
- 142002
- 142003
- 142004

**Right Answer :**

A and D

**Right Option Id : 142001**

**Question 139**

What is the mass of and object with a density of 24g/mL and a volume of 6 mL ?

Answer :

- (A) 144 g
- (B) 146 g
- (C) 142 g
- (D) 143 g

**Question Id : 141**

Option Id

- 141001
- 141002
- 141003
- 141004

**Right Answer :**

144 g

**Right Option Id : 141001**

**Question 140**

Bronze is an alloy made by melting the following:

Answer :

- (A) Zinc and tin
- (B) Tin and copper
- (C) Copper and zinc
- (D) Aluminium and zinc

**Question Id : 131**

Option Id

- 131001
- 131002
- 131003
- 131004

**Right Answer :**

Tin and copper

**Right Option Id : 131002**

**Question 141**

What is the missing number in the pattern given below? 1, 6, 15, -----45, 66, 91

Answer :

- (A) 25
- (B) 36
- (C) 28
- (D) 32

**Question Id : 139**

Option Id

- 139001
- 139002
- 139003
- 139004

**Right Answer :**

28

**Right Option Id : 139003**

**Question 142**

Ammini is arranging 36 identical squares in the form of different rectangles. How many different types of rectangles can she make with these squares ?

Answer :

- (A) Six
- (B) Eight
- (C) Four
- (D) Five

**Question Id : 138**

Option Id

- 138001
- 138002
- 138003
- 138004

**Right Answer :**

Five

**Right Option Id : 138004**

**Question 143**

A whole number is added to 100 and the same number is subtracted from 100. the sum of the two resulting numbers so obtained is :

Answer :

- (A) 100
- (B) 200
- (C) 0
- (D) 50

**Question Id : 137**

Option Id

- 137001
- 137002
- 137003
- 137004

**Right Answer :**

200

**Right Option Id : 137002**

**Question 144**

The sum of  $5 - 5 + 5 - 5 + 5 - 5 \dots\dots\dots$  , to odd number of terms is :

Answer :

- (A) 5
- (B) 15
- (C) 0
- (D) -5

**Question Id : 136**

Option Id

- 136001
- 136002
- 136003
- 136004

**Right Answer :**

5

**Right Option Id : 136001**

**Question 145**

**Question Id : 135**

Which of the following arrangements represents a descending order of numbers?

Answer :

- (A) 10.5, 1.50, 1.05, 1.055, 1.005, 0.155
- (B) 10.5, 1.50, 1.055, 1.05, 1.005, 0.155
- (C) 1.05, 1.005, 1.50, 1.055, 10.5, 0.155
- (D) 10.5, 1.05, 1.055, 1.50, 1.005, 0.155

Option Id

- 135001
- 135002
- 135003
- 135004

**Right Answer :**

10.5, 1.50, 1.055, 1.05, 1.005, 0.155

**Right Option Id : 135002**

**Question 146**

Island : Sea :: Oasis : ?

Answer :

- (A) Pond
- (B) Desert
- (C) Water
- (D) Tree

**Question Id : 134**

Option Id

- 134001
- 134002
- 134003
- 134004

**Right Answer :**

Desert

**Right Option Id : 134002**

**Question 147**

Choose the word which is different from the rest.

Answer :

- (A) Chicken
- (B) Snake
- (C) Swan
- (D) Crocodile

**Question Id : 133**

Option Id

- 133001
- 133002
- 133003
- 133004

**Right Answer :**

Chicken

**Right Option Id : 133001**

**Question 148**

42 40 38 35 33 31 28

Answer :

- (A) 25 22
- (B) 26 23
- (C) 26 24
- (D) 25 23

**Question Id : 132**

Option Id

- 132001
- 132002
- 132003
- 132004

**Right Answer :**

26 24

**Right Option Id : 132003**

**Question 149**

If in a certain code, MICROWAVE is written as LJBSNXZWD, how is POPULAR written in that code?

Answer :

- (A) QBIKVPVAV

**Question Id : 140**

Option Id

- 140001

(B) OPKVPAV

140002

(C) OPOVKBQ

140003

(D) KBQVOPA

140004

**Right Answer :**

OPOVKBQ

**Right Option Id : 140003**

**Question 150**

Pointing to Kapil, Shilpa said, "His mother's brother is the father of my son Ashish". How is Kapil related to Shilpa?

Answer :

(A) Sister-in-law

(B) Nephew

(C) Niece

(D) Aunt

**Question Id : 150**

Option Id

150001

150002

150003

150004

**Right Answer :**

Nephew

**Right Option Id : 150002**



## Bihar STET Chemistry Paper – 2

### MOCK TEST LINK



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### VIDEO SOLUTION LINK



<https://www.youtube.com/watch?v=V42ssCvCQ74&list=PLWY4EgW14uNc6P7P-ihWuR122n-cVT728&pp=gAQBiAQB>

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 MANISH KUMAR Roll No. 100367 RANK 42	 RAVI JHA Roll No. 100370 RANK 43	 GAUTAM KUMAR Roll No. 100373 RANK 44	 SANJAY KUMAR Roll No. 100376 RANK 45	 DHIREN K. SINGH Roll No. 100379 RANK 46	 TUSHAR PRASAD Roll No. 100382 RANK 47	 VANDANA Roll No. 100385 RANK 48
 PRASHANT K. SINGH Roll No. 100388 RANK 49	 AJAY KUMAR Roll No. 100391 RANK 50	 ANSHU KUMAR Roll No. 100394 RANK 51	 RISHI KUMAR Roll No. 100397 RANK 52	 NISHI PATEL Roll No. 100400 RANK 53	 JITENDRA KUMAR Roll No. 100403 RANK 54	 MUNISH LAL Roll No. 100406 RANK 55

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