Sample Paper

UG PCA (sections: Physics, Chemistry, Agriculture)

Q.No. 1

In which of the following decays, the element does not change?

(A)

α - decay

(B)

β^+ - decay

(C)

β^- - decay

(D)

γ - decay

Q.No. 2

Read the following statements and choose the correct statements:

A: Spontaneous mutations occur in nature.

B: Forward mutations occur from mutant allele to wild type.

C: Reserve mutations occur from wild type to mutant allele.

D: Somatic mutations occur in somatic tissues or cells.

Choose the correct answer from the options given below:

(A)

A and B only

(B)

A and D only

(C)

B and C only

(D)

C and D only

Q.No. 3

What is total pulse production in India?

(A)

15 million tonnes

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(B)

20 million tonnes

(C)

25 million tonnes

(D)

30 million tonnes

Q.No. 4

Which of the following parameters is same for molecules of all gases at a given temperature?

(A)

density

(B)

speed

(C)

momentum

(D)

kinetic energy

Q.No. 5

Unpolished light is incident on a plane glass surface with reflective index μ. What should be the angle of incidence so that the reflected and refracted rays are perpendicular to each other?

(A)

$\tan^{-1}(1/\mu)$

(B)

$\tan^{-1}\mu$

(C)

$\sin^{-1}(1/\mu)$

(D)

$\cos^{-1}(1/\mu)$

Q.No. 6

Given below are two statements

Statements I: Frost day is the day when minimum temperature is less than $0^{o}C$

Statement II: Frost point is a point when maximum temperature of frost formation occur by sublimation of atmosphere moisture.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

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(B)

Both statement I and statement II is incorrect

(C)

statement I is correct but statement II is incorrect

(D)

statement I is incorrect but statement II is correct

Q.No. 7

Given below are two statements:

Statement I: Dissociation is the process of separation of ions in water already existing as such in the solid state of the solute like NaCl.

Statement II: Ionization corresponds to a process in which a neutral molecules splits into charged ions in the solution.

Choose the correct answer from the options given below:

(A)

Both Statement I and Statement II are true

(B)

Both Statement I and Statement II are false

(C)

Statement I is true but Statement II is false

(D)

Statement I is false but Statement II is true

Q.No. 8

A person travelling on a straight road moves with uniform velocity v_1 for some time and with uniform velocity v_2 for next equal time. His average velocity v will be:

(A)

$$\frac{2}{v} = \frac{1}{v_1} + \frac{1}{v_2}$$

(B)

$$v = \sqrt{v_1 + v_2}$$

(C)

$$v = \frac{v_1 + v_2}{2}$$

(D)

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$$\frac{1}{v} = \frac{1}{v_1} + \frac{1}{v_2}$$

Q.No. 9

The dimensional formula for the coefficient of viscosity is:

(A)

$[M^{-1}LT^{0}]$

(B)

$[M^{-1}L^{-1}T^{-1}]$

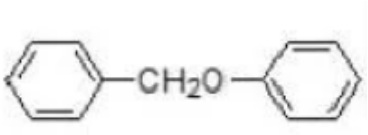
(C)

$[ML^{0}T^{1}]$

(D)

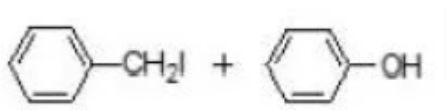
$[ML^{-1}T^{-1}]$

Q.No. 10

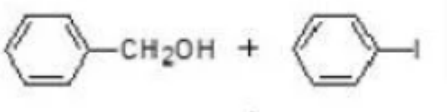


, undergoes cleavage in the presence of HI/△ to give:

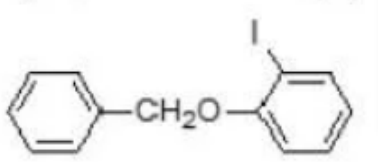
(A)



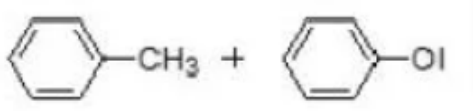
(B)



(C)



(D)



Q.No. 11

Which of the following noble gases has highest positive electron gain enthalpy?

(A)

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Ne

(B)

Ar

(C)

Kr

(D)

Xe

Q.No. 12

Which of the following oxide is used to estimate CO?

(A)

Br_2O

(B)

BrO_3

(C)

I_2O_4

(D)

I_2O_5

Q.No. 13

Two bullets are simultaneously , horizontally with different speeds and using two different guns from the same place. Which bullet will hit the ground first?

(A)

The faster one

(B)

The slower one

(C)

both will reach simultaneously

(D)

depends on the mass of bullets

Q.No. 14

The length and width of a rectangular plate are

$$(16.30 = 0.05)\mathrm{cm}$$

and

$$(13.80 \pm 0.05)\mathrm{cm}$$

. respectively. Area of the plate and uncertainty in the area will be :

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(A)

$$(224.9 \pm 15.05)\mathrm{cm}^2$$

(B)

$$(224.9 \pm 1.50)\mathrm{cm}^2$$

(C)

$$(224.9 \pm 0.15)\mathrm{cm}^2$$

(D)

$$(224.9 \pm 0.67)\mathrm{cm}^2$$

Q.No. 15

Brown heat of radish is caused due to which of the following?

(A)

Variation in temperature

(B)

Calcium deficiency

(C)

Boron deficiency

(D)

Delayed harvesting

Q.No. 16

Which of the following statements is true for cathode ray discharge tube experiments?

(A)

The electric discharge through the gases could be observed only at very high pressure and high voltages.

(B)

The characteristics of Cathode rays depend upon the material of electrode.

(C)

The properties of Cathode rays do not depend upon the nature of gas present in the cathode ray tube.

(D)

On applying high voltage across the electrodes, currents starts flowing from positive electrode to negative electrode.

Q.No. 17

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What is the total irrigated area of India?

(A)

58.5 million hectare

(B)

63.4 million hectare

(C)

78.5 million hectare

(D)

88.5 million hectare

Q.No. 18

The resistance of the platinum wire of a platinum resistance thermometer at ice point is 5 Ω and at steam pint id 5.25Ω . When thermometer is placed in a hot bath, the resistance is 5.8Ω. The temperature of the hot bath is

(A)

320 K

(B)

$320^{o}K$

(C)

220K

(D)

$220^{o}K$

Q.No. 19

Lithium react with element "X" make an alloy (white metal)used in bearings for motor engines. "X" is.....

(A)

Al

(B)

Mg

(C)

Pb

(D)

Cr

Q.No. 20

How many plants of mango can be planted in one hectare area if row to row and plant to plant spacing is 8 meter?

(A)

156

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(B)

146

(C)

176

(D)

640

Q.No. 21

As the mass number A increases, which of the following quantities related to the nucleus do not change?

(A)

mass

(B)

volume

(C)

density

(D)

binding energy

Q.No. 22

Which of the following species is/are Lewis acid?

A: BCl_3

B: BF_3

C: Mg^{2+}

D: OH^-

E:CO^{3+}

Choose the correct answer from the options given below:

(A)

A, B , C and E only

(B)

A and B only

(C)

B only

(D)

A, B and E only

Q.No. 23

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A uniform electric field of magnitude E= 100N/C exists in the space in X-direction. Calculate the flux of this field through a plane square area of 10 cm^2 placed in Y-Z plane

(A)

1.0 Nm^2/C

(B)

$10^2 Nm^2/C$

(C)

$10^4 Nm^2/C$

(D)

0.01 Nm^2/C

Q.No. 24

Which of the following is not related to the purification of colloidal solutions?

(A)

Dialysis

(B)

Ultrafiltration

(C)

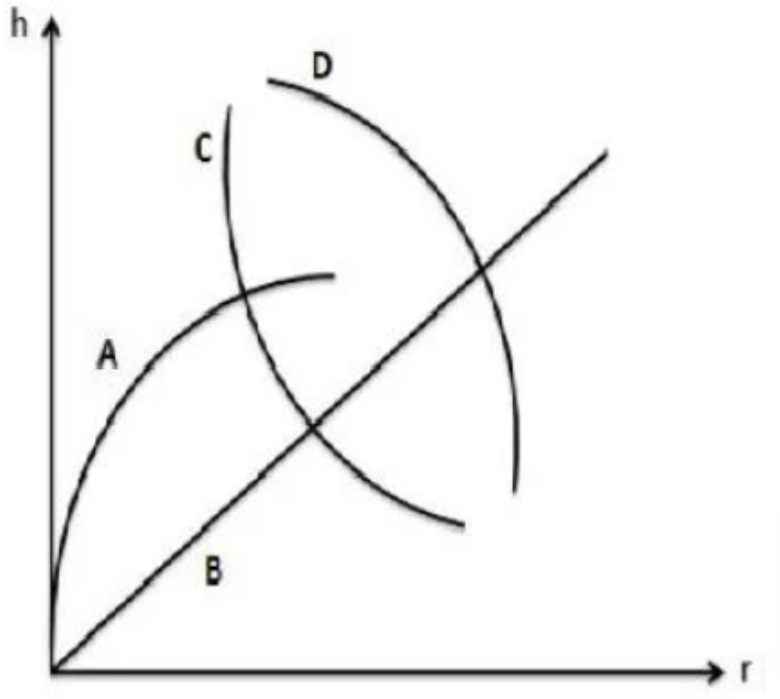
Tyndall effect

(D)

Electro-dialysis

Q.No. 25

Which of the following graphs represent the relation between capillary rise h and radius r of the capillary?



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(A)

D

(B)

C

(C)

B

(D)

A

Q.No. 26

Which of the following polymers is not an example of chain growth polymerization?

(A)

Polythene

(B)

Bakelite

(C)

Teflon

(D)

Polyacrylonitrile

Q.No. 27

For a hydrogen like atom, the kinetic energy of the electron in a certain orbit is 9.4 eV. The total energy and potential energy respectively in this case will be

(A)

18.8 eV, 9.4 eV

(B)

9.4 eV. 9.4 eV

(C)

-9.4 eV, -18.8 eV

(D)

9.4 eV, -18.8 eV

Q.No. 28

A satellite of mass m is in a circular orbit of radius 2R about the earth. The energy required to transfer it in a circular orbit of radius 4R is, (M=mass of the earth and R= Radius of the earth)

(A)

-GMm/4R

(B)

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GMm/4R

(C)

-GMm/8R

(D)

GMm/8R

Q.No. 29

A thin lens of focal length +10cm is immerse in a transparent liquid (μ=1.2). Its new focal length will be (for glass μ=1.6)

(A)

10 cm

(B)

12 cm

(C)

18 cm

(D)

20 cm

Q.No. 30

Match List I with List II:

List I	List II
Crop	Weed species
A. Berseem	I. Wild rice
B. Wheat	II. Wild oat
C. Rice	III. Chicory
D. Tea	IV. Loranthus

Choose the correct answer from the options given below:

(A)

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

(B)

A-I, B-II. C-III, D-IV

(C)

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

(D)

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

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Q.No. 31

Given below are two statements:

Statement I: Sustainable agriculture is the successful management of resources to satisfy changing human needs while maintaining the quality of the environment and conservation of natural resources.

Statement II: Contingency cropping system is growing of crops in aberrant weather conditions.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

(B)

Both statement I and statement II is incorrect

(C)

statement I is correct but statement II is incorrect

(D)

statement I is incorrect but statement II is correct

Q.No. 32

While applying herbicide on a 40cm wide band in a 60cm row spacing crop, how much herbicide required for 1 ha area, if application rate is 4.5 lit/ha?

(A)

2.0 lit/ha

(B)

3.0 lit/ha

(C)

4.0 lit/ha

(D)

5.0 lit/ha

Q.No. 33

Soil aggregate formation is largely functions of :

A: Silt and clay content

B: Microbial activity

C: Irreversible soil colloids

D: Organic matter content

E: Soil parent material

choose the most appropriate answer from the options given below:

(A)

A, B and C only

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(B)

B, C and E only

(C)

A, B, C and D only

(D)

A, B, C, D and E

Q.No. 34

Read the following statements and choose the correct statements:

A: Tubers of Cyperus esculentus affect the growth of maize.

B: Crop rotation is one of the most important practices for controlling all weeds.

C: Seed exudates of wild oat affect wheat germination.

D: Seed bed preparation maximizes the early weed flushes.

E: Smother crops grown as intercrop to suppress the weed flora.

Choose the correct answer from the options given below:

(A)

A, B and C only

(B)

B, C and D only

(C)

C, D and E only

(D)

A, C and E only

Q.No. 35

Let C_p and C_v denote molar heat capacities of an ideal gas of constant pressure and constant volume respectively. Which of the following is a universal constant?

(A)

C_p/C_v

(B)

C_pC_v

(C)

$C_p - C_v$

(D)

$C_p + C_v$

Q.No. 36

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Match List I with List II:

List I	List II
Law	**Formula**
A. Charle's Law	I. P/T = Constant
B. Gay Lussac's Law	II. PV = Constant
C. Boyle's Law	III. V/n = Constant
D. Avagadro's Law	IV. V/T = Constant

Choose the correct answer from the options given below:

(A)

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

(B)

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

(C)

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

(D)

A-Iv, B-III, C-II, D-I

Q.No. 37

Which of the following statements are correct?

A: Hydrides of group 13 acts as Lewis acids.

B: On addition of gypsum to cement, the setting time decreases.

C: Diamond is thermodynamically most stable allotrope of carbon.

D: Beryllium exhibits coordination number of more than four.

E: Beryllium is not readily attached by acids because the presence of an oxide film of the surface of the metal.

Choose the correct answer from the options given below:

(A)

A and C only

(B)

B and C only

(C)

A and E only

(D)

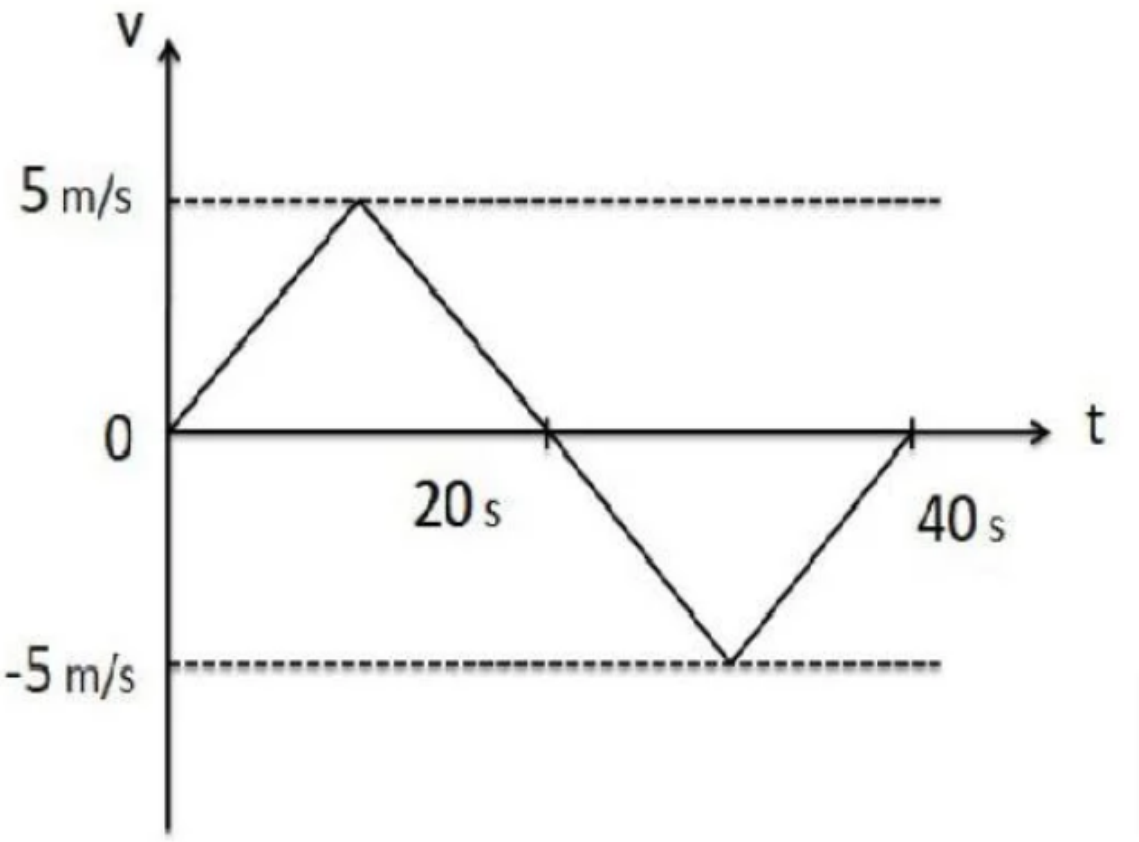
A and B only

Q.No. 38

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From the velocity time plot shown in the figure, find the distance travelled by the particle during the first 40 s



(A)

Zero

(B)

100m

(C)

150

(D)

200m

Q.No. 39

Match List I with List II:

List I	**List II**
Water quality	**Suitable crop**
A. Low salinity water	I. Wheat
B. Medium salinity water	II. Apple
C. Saline water	III. Sugarbeet
D. Normal water	IV. Alfalfa

Choose the correct answer from the options given below:

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(A)

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

(B)

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

(C)

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

(D)

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

Q.No. 40

A force

$$\vec{F} = 7\hat{j} + 3\hat{j} - 5\hat{k}$$

acts on a particle with position vector

$$\hat{i} = \hat{i} - \hat{j}$$

. The torque acting on the particle is

(A)

$$5\hat{i} + 5\hat{j} + 10\hat{k}$$

(B)

$$5\hat{i} - 5\hat{j} + 10\hat{k}$$

(C)

$$5\hat{i} - 5\hat{j} - 10\hat{k}$$

(D)

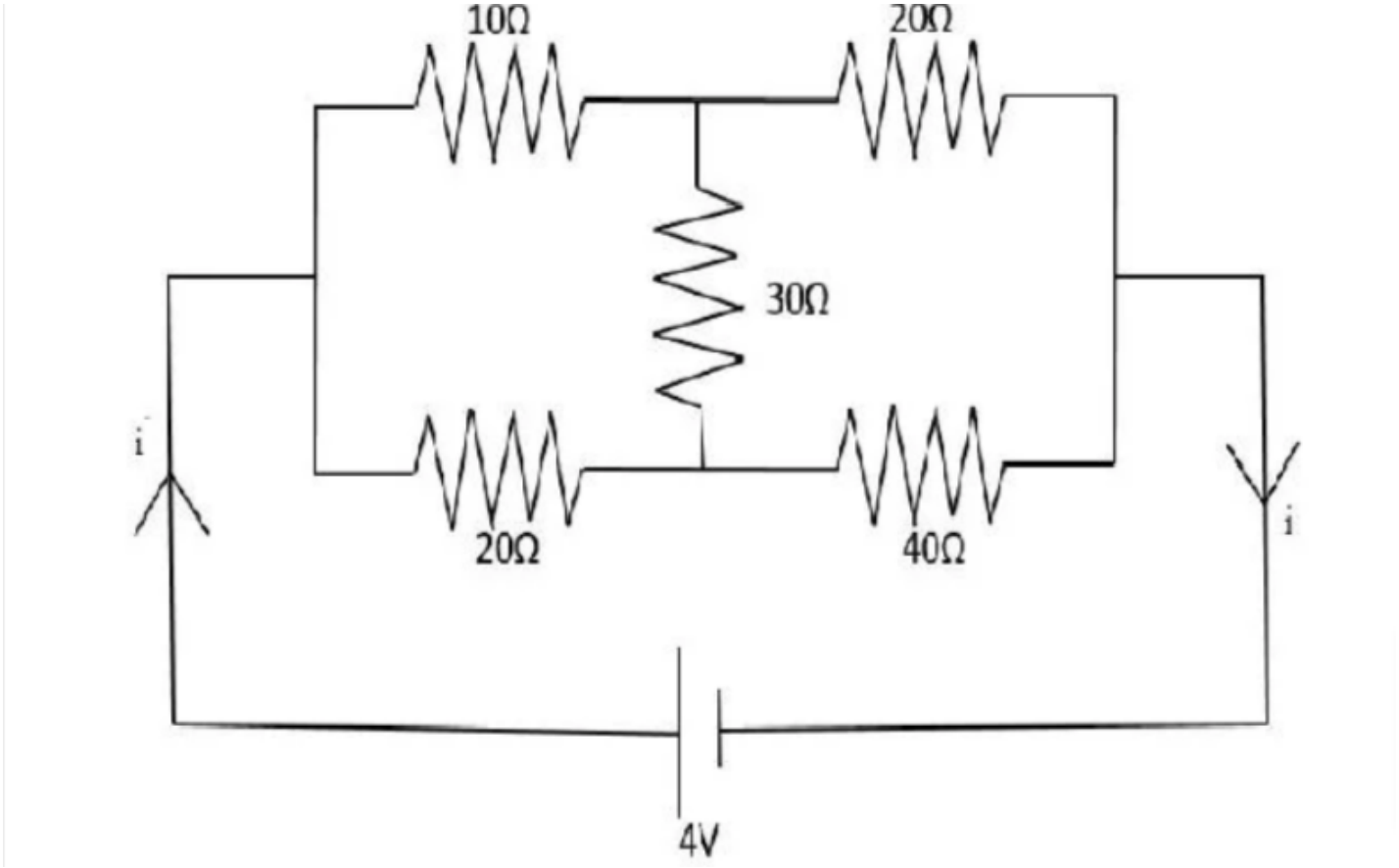
$$5\hat{i} + 5\hat{j} - 10\hat{k}$$

Q.No. 41

In the circuit show below, the value of the current i will be

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(A)

0.2 A

(B)

2 A

(C)

0.075 A

(D)

0.75A

Q.No. 42

An insect trapped in a circular groove of radius 15 cm moves along the ground steadily and completes 14 revolutions in 100 s. The linear speed of a motion is: (take $\pi=22/7$)

(A)

0.88 cm/s

(B)

1.32 cm/s

(C)

13.2 cm/s

(D)

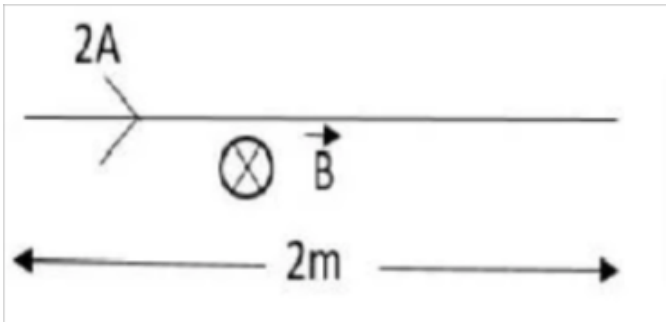
88 cm/s

Q.No. 43

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A straight wire of mass 100 g and length 2.0 m carries a current of 2A. It is suspended in mid-air by a uniform horizontal magnetic field B as shown in figure. The magnitude of the magnetic field is , ($g=10m/s^2$)



(A)

250T

(B)

25T

(C)

2.5T

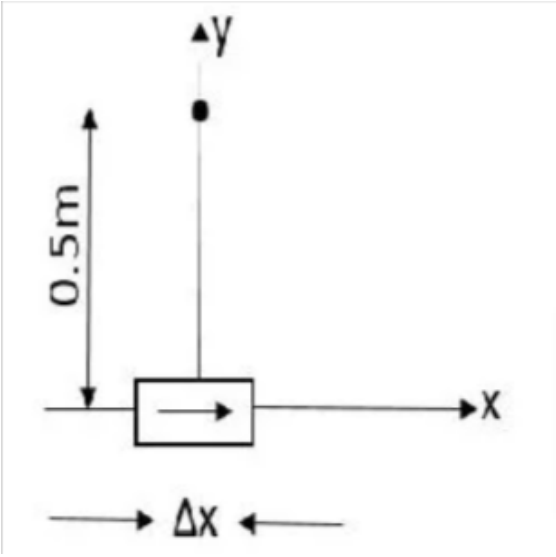
(D)

0.25T

Q.No. 44

An element of length $\triangle x$=1 cm is placed at the origin and carrier current I=4A as shown in the figure. The magnitude of the magnetic field on the y-axis at a distance of 0.5 m is,

$$\left(\mu_0/4\pi = 10^{-7}\ \mathrm{T\ m'A}\right)$$



(A)

$1.6 * 10^{-7}$ T

(B)

$1.6 * 10^{-8}$ T

(C)

$1.6 * 10^{-9}$ T

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(D)

0

Q.No. 45

The resistance R=V/I, were V=(200±10)V and I=(10+1)A. The percentage error in R will be

(A)

15%

(B)

11%

(C)

10%

(D)

9%

Q.No. 46

Read the following statement and choose the correct statements:

A: Anthrax disease is caused by virus.

B: Black quarter disease is caused by bacteria.

C: Mastitis diseases is caused by bacteria.

D: Coccidiosis disease is caused by parasite.

Choose the correct answer from the options given below:

(A)

A,B,C and D

(B)

A,B and C only

(C)

B,C and D only

(D)

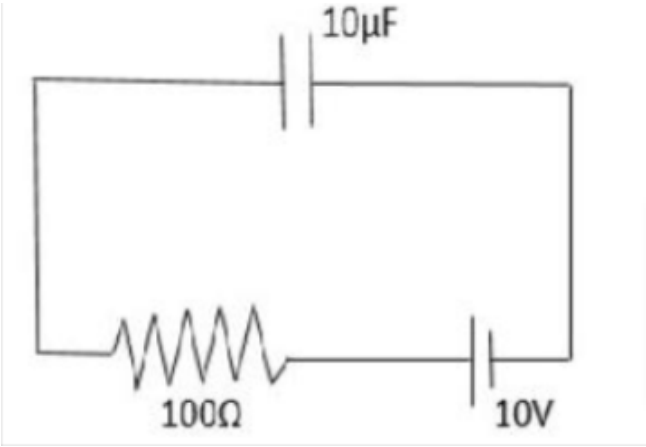
A,C and D only

Q.No. 47

A 10μF capacitor is connected to the battery of 10 V through a 100Ω resistor as shown in figure. The charge accumulated in the capacitor will be

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(A)

100μC

(B)

50μC

(C)

25μC

(D)

0

Q.No. 48

The element with atomic number 55 belongs to

(A)

Group 1

(B)

Group 3

(C)

Group 15

(D)

Group 17

Q.No. 49

Given below are two statements:

Statement I: Both carbon and silicon atoms belong to group 14, both CO_2 and SiO_2 are gases and linear molecules.

Statement II: BCl_3 and $AlCl_3$ behave as Lewis acids, being electron deficient due to incomplete octet of central atom.

Choose the correct answer from the options given below:

(A)

Both Statement I and Statement II are true

(B)

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Both Statement I and Statement II are false

(C)

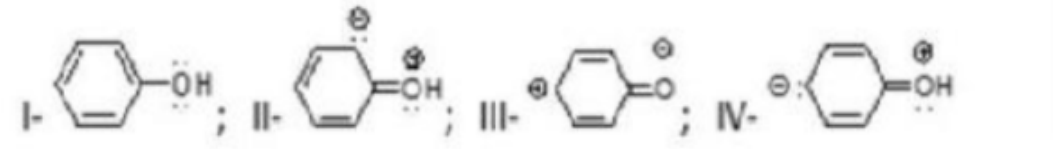
Statement I is true but Statement II is false

(D)

Statement I is false but Statement II is true

Q.No. 50

Consider the following structures:



Choose the correct answer with the given structure(s) which are resonating structures of phenol.

(A)

II and III only

(B)

I, II and III only

(C)

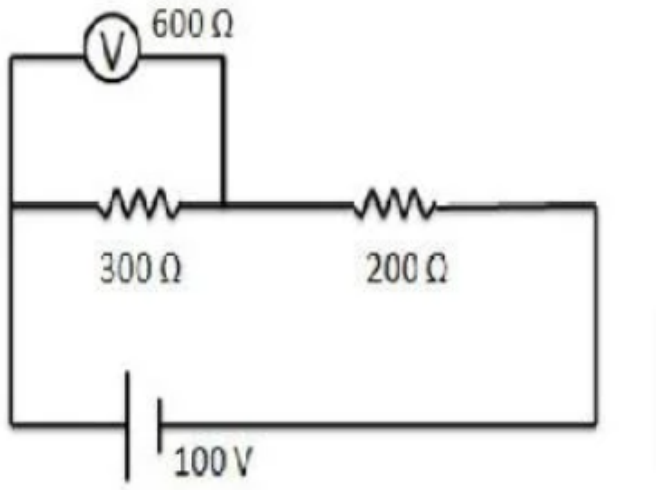
I, II and IV only

(D)

II and IV only

Q.No. 51

What will be reading of the Voltmeter in the circuit shown below? Resistance of the voltmeter is 600 Ω.



(A)

60 V

(B)

75 V

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(C)

50 V

(D)

40 V

Q.No. 52

The position of an object moves along x-axis is given by $x=a+bt^2$ where a=11 m, b=3.5 m/s^2 and t is in seconds. The average velocity between t=3 s and t=5 s is

(A)

28m/s

(B)

14m/s

(C)

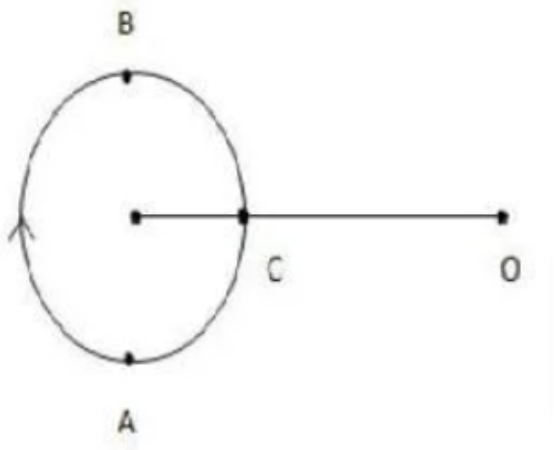
21m/s

(D)

7m/s

Q.No. 53

A small source of sound moves on a circle as shown in figure and observer is setting at O. Let v_A, v_B and v_C be the frequencies heard when the source is at A, B and C respectively. We can then say:



(A)

$v_A > v_B > v_C$

(B)

$v_A = v_B > v_C$

(C) $v_B > v_C > v_A$

(D)

$v_A > v_C > v_B$

Q.No. 54

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Given below are two statements, one is labelled as Assertion and other is labelled as Reason:

Assertion A: India is world's largest producer of milk.

Reason R: Indian cattle species have greater resistance to tropical diseases.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both A and R are correct and R is the correct explanation of A

(B)

Both A and R are correct and R is not the correct explanation of A

(C)

A is correct but R is incorrect

(D)

A is incorrect but R is correct

Q.No. 55

Read the following statements and choose the correct statements:

A: In India, highest tomato producing state is M.P.

B: In India, highest productivity of tomato is in Karnataka.

C: Odisha has maximum area of tomato in India.

D: Andhra Pradesh has maximum productivity of tomato.

E: West Bengal has the highest area under tomato in India.

Choose the correct answer from the options given below:

(A)

B, D and E only

(B)

A, B and C only

(C)

A, C and D only

(D)

A, D and E only

Q.No. 56

Match List I with List II:

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List I	List II
Types of solids	Examples
A. Molecular Solids	I. MgO
B. Ionic Solids	II. SiC
C. Metallic Solids	III. CCl_4
D. Covalent Solids	IV. Ag

Choose the correct answer from the options given below:

(A)

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

(B)

A-III, B-II, C-IV, A-I

(C)

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

(D)

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

Q.No. 57

Calculate the number of plants of tomato accommodated in one hectare area, if row to row distance is 60cm and plant to plant distance is 45cm?

(A)

47000 Approximately

(B)

37000 Approximately

(C)

33000 Approximately

(D)

27000 Approximately

Q.No. 58

If the container have equal masses of CH_4 and H_2, then the mole fraction of CH_4 is:

(A)

1/9

(B)

4/9

(C)

5/9

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(D)

8/9

Q.No. 59

Given below are two statements:

Statement I: Boro rice is photoperiod sensitive and grown under irrigated conditions.

Statement II: Most commonly grown wheat (Triticium aestivum) is a hexaploid (2n=6x=42)

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

(B)

Both statement I and statement II is incorrect

(C)

statement I is correct but statement II is incorrect

(D)

statement I is incorrect but statement II is correct

Q.No. 60

Given below two statements, One is labelled as Assertion A and the other labelled as Reason R:

Assertion A: m-Nitrophenol is less acidic than p-Nitrophenol

Reason R: Nitro group helps in stabilization of the phenoxide ion by dispersal of negative charge due to resonance of p-nitrophenol

In light of the above statements, Choose the most appropriate answer from the options given below:

(A)

Both A and R are correct but R is the correct explanation of A

(B)

Both A and R are correct but R is NOT the correct explanation of A

(C)

A is correct but R is not correct

(D)

A is not correct but R is correct

Q.No. 61

Match List I with List II:

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List I	List II
Enzyme	Source
A. Zymase	I. Soyabean
B. Urease	II. Yeast
C. Pepsin	III. Malt
D. Diastase	IV. Stomach

Choose the correct answer from the options given below:

(A)

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

(B)

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

(C)

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

(D)

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

Q.No. 62

The temperature at which the real gas obeys ideal gas law over an appreciable range of pressure is called

(A)

Absolute temperature

(B)

Boyle temperature

(C)

Critical temperature

(D)

Kelvin temperature

Q.No. 63

Two cars having masses m_1 and m_2 move in circles of radii r_1 and r_2 respectively. If they complete the circles in equal time, the ratio of their angular speed w_1/w_2 will be:

(A)

m_1/m_2

(B)

r_1/r_2

(C)

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m_1r_1/m_2r_2

(D)

1

Q.No. 64

Metaphosphoric acid $(HPO_3)_3$ contains:

(A)

3 P-OH bonds, 3 P=O bonds, 3 P-O-P bonds

(B)

4 P-OH bonds, 2 P=O bonds, 1 P-O-P bonds

(C)

3 P-OH bonds, 1 P=O bonds

(D)

2 P-OH bonds, 2 P=O bonds, 2 P-H bonds

Q.No. 65

Moment of inertia of a disc about one of its diameter is, (M=mass and R= Radius of the disc)

(A)

MR^2

(B) $MR^2/2$

(C)

$MR^2/4$

(D)

$MR^2/8$

Q.No. 66

Rainbow occurs due to the fact that when sunlight passes through the water drops in the atmosphere, it undergoes,

(A)

Dispersion

(B)

Scaltering

(C)

Polarization

(D)

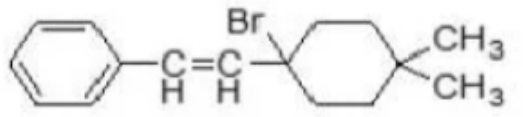
Diffraction

Q.No. 67

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The position of -Br classified in the given compound is:



(A)

Benzyl

(B)

Allyl

(C)

Vinyl

(D)

Alkyl

Q.No. 68

Which of the following is the primarily sex organ in male reproductive system of animals?

(A) Penis

(B)

Testicles

(C)

Seminal vesicles

(D)

Spermatic cord

Q.No. 69

The magnetic susceptibility is negative for,

(A)

Paramagnetic materials only

(B)

Diamagnetic materials only

(C)

Ferromagnetic materials only

(D)

Paramagnetic and ferromagnetic materials only

Q.No. 70

If the frequency of light in a photoelectric experiment is doubled, the stopping potential will be-

(A)

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double

(B)

more than double

(C)

half

(D)

less than double

Q.No. 71

For the detection of carbonic organic compounds, it is first treated with reagent 'X' on heating to get CO_2, X is:

(A)

Cu_2O

(B)

CuO

(C)

$CuSO_4$

(D)

$CuSO_4.5H_2O$

Q.No. 72

Calculate the amount of sulfosulfuron containing 0.75 kg a.i. per kg for an area of 5 ha. The application rate is 3.0 kg a.i./ha

(A)

20 kg/ha

(B)

40 kg/ha

(C)

30 kg/ha

(D)

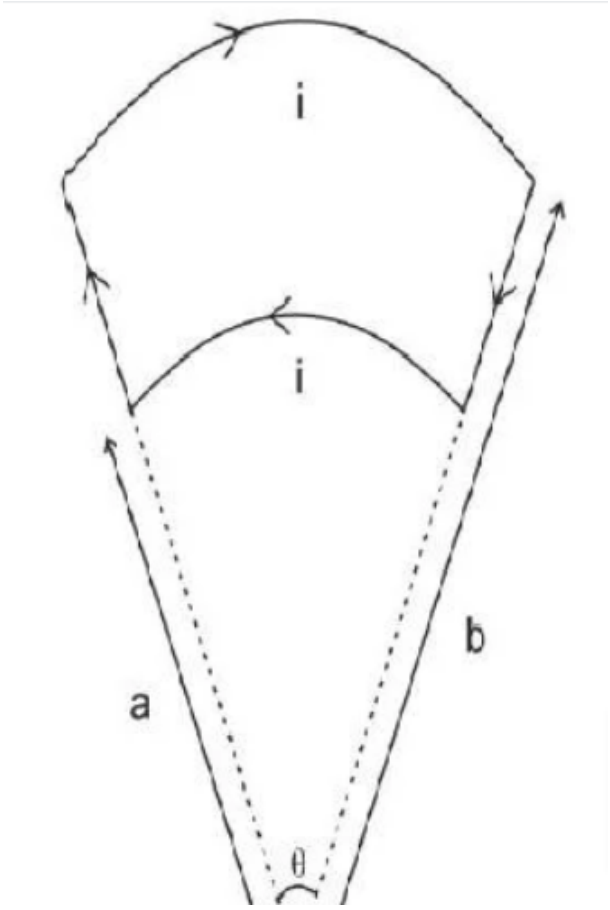
10 kg/ha

Q.No. 73

Figure shows a current loop having two section of circular loops joined by two radial lines. The net magnetic field at a centre O is:

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(A)

$$\frac{\theta\mu_0 i(b-a)}{4\pi ab}$$

(B)

$$\frac{\theta\mu_0 i(b-a)}{2\pi ab}$$

(C)

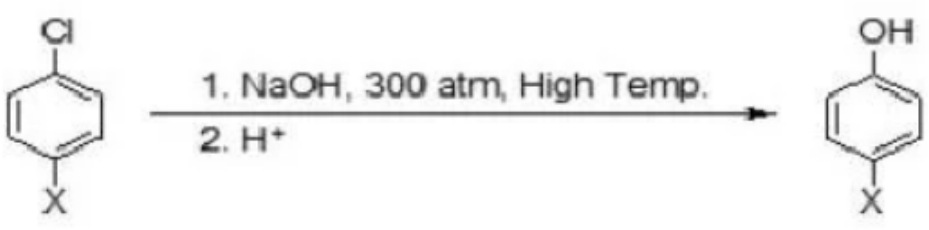
$$\frac{\theta\mu_0 l(b-a)}{\pi ab}$$

(D)

Zero

Q.No. 74

For the given reaction:



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The rate of the reaction will be maximum, when 'X' is:

(A)

H

(B)

NO_2

(C)

CN

(D)

COOH

Q.No. 75

Given below are two statements, one is labelled as Assertion and other is labelled as Reason:

Assertion A: The cell wall is found only in the plants whereas absent in animals.

Reason R: The cell wall is produced and maintained by living protoplasm.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both A and R are correct and R is the correct explanation of A

(B)

Both A and R are correct and R is not the correct explanation of A

(C)

A is correct but R is incorrect

(D)

A is incorrect but R is correct

Q.No. 76

Match List I with List II:

List I	List II
Crop	Associated
A. Cauliflower	I. Pod
B. Bottle gourd	II. Pepo
C. Tomato	III. Berry
D. Okra	IV. Curd

Choose the correct answer from the options given below:

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(A)

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

(B)

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

(C)

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

(D)

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

Q.No. 77

Match List I with List II:

List I	List II
Milk Product	**Place**
A. *Khurchan*	I. North India
B. *Payasum*	II. East India
C. *Khirmohan*	III. West India
D. *Shrikhand*	IV. South India

Choose the correct answer from the options given below:

(A)

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

(B)

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

(C)

A-I, B-III, C-I, D-IV

(D)

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

Q.No. 78

Given below are two statements:

Statement I: Budding is a method of vegetative propagation in which a twig is inserted in the rootstock.

Statement II: T-budding is also known as shield budding.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

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(B)

Both statement I and statement II is incorrect

(C)

statement I is correct but statement II is incorrect

(D)

statement I is incorrect but statement II is correct

Q.No. 79

What is the scientific name of finger millet?

(A)

Setaria italica L.Beauv

(B)

Eleusine coracana L.

(C)

Panicum sumatrense

(D)

Panicum miliaceum

Q.No. 80

Match List I with List II:

List I	**List II**
Animal species	**Length of estrous cycle**
A. Cattle	I. 16 – 17 days
B. Sheep	II. 17 – 21 days
C. Goat	III. 19 -20 days
D. Sow	IV. 20-22 days

Choose the correct answer from the options given below:

(A)

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

(B)

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

(C)

A-IV, B-II, C-II, D-III

(D)

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

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Q.No. 81

Read the following statements and choose the correct statements:

A: Foot and mouth disease is caused by virus.

B: Brucellosis disease is caused by bacteria.

C: Haemorrhagic septicamia is caused by bacteria.

D: Rinderpest is caused by virus.

Choose the correct answer from the options given below:

(A)

A, B and D only

(B)

A, B and C only

(C)

A and B only

(D)

A, C and D only

Q.No. 82

Read the following statements and choose the correct statements:

A: Balance nutrition to crop plants increase yield and quality.

B: Nutrient deficiency symptoms are rare with balance fertilization.

C: Integrated nutrient management practices provided the nutrients to crop in balance ratio.

D: Integrated nutrient management is an economic viable and environmentally safer practice.

Choose the correct answer from the options given below:

(A)

A, B and D only

(B)

B, C and D only

(C)

A, B ,C and D

(D)

A, B and C only

Q.No. 83

Select the correct option for elements in the increasing order of 1st ionization enthalpy:

Pb,Sn,Ge,Si

(A)

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Pb<Sn<Ge<Si

(B)

Sn<Pb<Si<Ge

(C)

Sn<Pb<Ge<Si

(D)

Pb<Sn<Si<Ge

Q.No. 84

When a transistor is used as amplifier, the circuit is designed in such a way that the transistor operate in:

(A)

cut off and saturation region

(B)

cut-off and active region

(C)

saturation and active region

(D)

active region only

Q.No. 85

Given below are two statements, one is labelled as Assertion and other is labelled as Reason:

Assertion A: Addition of potassium metabisulphite isa voided in coloured juices and pulp.

Reason R: Potassium metabisulpjite has tendency to bleach natural colour of products.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both A and R are correct and R is the correct explanation of A

(B)

Both A and R are correct and R is not the correct explanation of A

(C)

A is correct but R is incorrect

(D)

A is incorrect but R is correct

Q.No. 86

Which among the following is most common and commercial method of propagation in gladiolus?

(A)

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Tissue culture

(B)

Seed

(C)

Corm

(D)

Suckers

Q.No. 87

Given below two statements, One is labelled as Assertion A and the other labelled as Reason R:

Assertion A: The preservation of meat by salting and fruits by adding sugar is done to protect them from bacteria action.

Reason R: Due to the reverse osmosis.

In light of the above statements, Choose the most appropriate answer from the options given below:

(A)

Both A and R are correct but R is the correct explanation of A

(B)

Both A and R are correct but R is NOT the correct explanation of A

(C)

A is correct but R is not correct

(D)

A is not correct but R is correct

Q.No. 88

Read the following statements and choose the correct statements:

A: Brinjal is fourth major vegetable crop of India.

B: Cabbage is third major vegetable crop of India.

C: Pea is a vegetable crop as well as pulse crop.

D: In India, West Bengal is leading producer of cauliflower.

E: Uttar Pradesh is leading producer of potato in India.

Choose the correct answer from the options given below:

(A)

A, B, C and D only

(B)

A, B, C and E only

(C)

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B, C ,D and E only

(D)

A, C, D and E only

Q.No. 89

An inductor joined to 6 V battery draws 12 A current. The inductor and the capacitor is connected to ac source of rms voltage 6V in series. If the current in the circuit is in phase with emf, the rms current is

(A)

6 A

(B)

12/√2 A

(C)

12 A

(D)

12√2 A

Q.No. 90

A body falling vertically downwards due to gravity, break into two equal parts of unequal masses. The centre of mass of the two masses taken together will-

(A)

shift towards heavier mass

(B)

shift towards lighter mass

(C)

does not shift horizontally

(D)

depends on vertical velocity at the time of breaking

Q.No. 91

Two charges +10μC and +20μC are placed at a distance of 2 cm. The electric potential due to the charges at the mid point of the line joining the two charges will be,

$$\left(1/4\pi E_0 = 9310^9 \text{ N m}^2/\text{c}\right)$$

(A)

0

(B)

9MV

(C)

18MV

(D)

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27MV

Q.No. 92

In the Modern Periodic table, Scandium is placed in

(A)

Group-IIIA, Period 4

(B)

Group-IIIA, Period 3

(C)

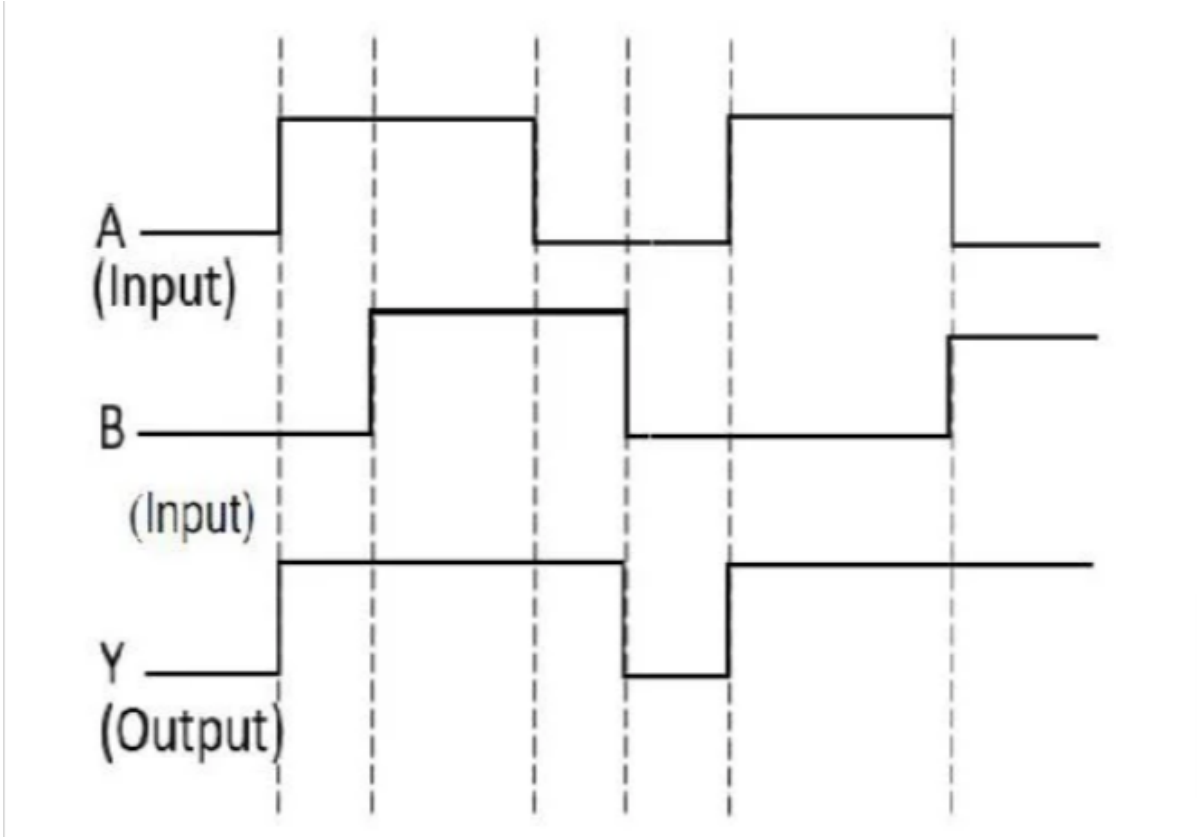
Group-IIIB, Period 4

(D)

Group-IIIB, Period 3

Q.No. 93

Figure given below shown A and B input waveforms Y, the output waveform for a logic gate. The gate is



(A)

AND gate

(B)

OR gate

(C)

NOT gate

(D)

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NOR gate

Q.No. 94

Given below are two statements:

Statement I: The optimum soil temperature for micro organisms is ranged from $40^{o}C$ to $45^{o}C$.

Statement II: Various microbiological processes like mineralization of nitrogen, nitrogen fixation, pesticide degradation etc are mainly influenced by soil temperature.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

(B)

Both statement I and statement II is incorrect

(C)

statement I is correct but statement II is incorrect

(D)

statement I is incorrect but statement II is correct

Q.No. 95

If the temperature of a uniform rod is slightly increased by Δt, it moment of inertia / about a perpendicular bisector will increases by, (L=length of rod,

α

=coefficient of linear expansion)

(A)

Zero

(B)

$$\alpha L \Delta t$$

(C)

$$2\alpha L \Delta t$$

(D)

$$3\alpha L \Delta t$$

Q.No. 96

Given below are two statements, one is labelled as Assertion and other is labelled as Reason:

Assertion A: Most protozoa are free living in fresh water or marine environments.

Reason R: Moisture is absolutely required for protozoa.

In light of the above statements, choose the most appropriate answer from the options given below:

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(A)

Both A and R are correct and R is the correct explanation of A

(B)

Both A and R are correct and R is not the correct explanation of A

(C)

A is correct but R is incorrect

(D)

A is incorrect but R is correct

Q.No. 97

Given below are two statements:

Statement I: Generally, only non-metal oxides is acidic and oxides of some metals in high oxidation state also found to have acidic character.

Statement II: Oxides like CO, No and N_2O are neutral oxides.

Choose the correct answer from the options given below:

(A)

Both Statement I and Statement II are true

(B)

Both Statement I and Statement II are false

(C)

Statement I is true but Statement II is false

(D)

Statement I is false but Statement II is true

Q.No. 98

Given below two statements, One is labelled as Assertion A and the other labelled as Reason R:

Assertion A: α-D-glucose is a dextrorotatory compound.

Reason R: The notation 'D' in α-D-Glucose represents its dextrorotatory nature.

In light of the above statements, Choose the most appropriate answer from the options given below:

(A)

Both A and R are correct but R is the correct explanation of A

(B)

Both A and R are correct but R is NOT the correct explanation of A

(C)

A is correct but R is not correct

(D)

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A is not correct but R is correct

Q.No. 99

Which of the following allopolyploid arises by combining genomes of two diploid species?

(A)

Autotriploid

(B)

Autotetraploid

(C)

Amphidiploid

(D)

Allosyndesis

Q.No. 100

Given below two statements, One is labelled as Assertion A and the other labelled as Reason R:

Assertion A: Combustion of all organic compounds is an endothermic reaction.

Reason R: The standard enthalpy of formation of an element in reference state is taken as zero.

In light of the above statements, Choose the most appropriate answer from the options given below:

(A)

Both A and R are correct but R is the correct explanation of A

(B)

Both A and R are correct but R is NOT the correct explanation of A

(C)

A is correct but R is not correct

(D)

A is not correct but R is correct

Q.No. 101

Match List I with List II:

List I	**List II**
Milk Product	**Place**
A. *Basundi*	I. North East India
B. *Sandesh*	II. East India
C. *Churpi*	III. South India
D. *Payasum*	IV. West India

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Choose the correct answer from the options given below:

(A)

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

(B)

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

(C)

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

(D)

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

Q.No. 102

Given below are two statements:

Statement I: Intergeneric hybridization refers to crossing between two different genera of two different families.

Statement II: Cross incompatibility, hybrid unviability and hybrid sterility and hybrid breakdown are the main barriers to distant hybridization.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

(B)

Both statement I and statement II is incorrect

(C)

statement I is correct but statement II is incorrect

(D)

statement I is incorrect but statement II is correct

Q.No. 103

Given below are two statements:

Statement I: Algae differ from other photosynthetic eukaryotes, in lacking a well organized vascular conducting system.

Statement II: In multicellular gametangia of algae, at least 50 % cells are fertile.

In light of the above statement, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

(B)

Both statement I and statement II is incorrect

(C)

statement I is correct but statement II is incorrect

(D)

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statement I is incorrect but statement II is correct

Q.No. 104

Match List I and List II:

List I	List II
Proteins	**Examples**
A. Primary derived proteins	I. Nucleoproteins
B. Simple proteins	II. Peptides
C. Conjugated proteins	III. Scleroproteins
D. Secondary derived proteins	IV. Metaproteins

Choose the correct answer from the option given below:

(A)

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

(B)

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

(C)

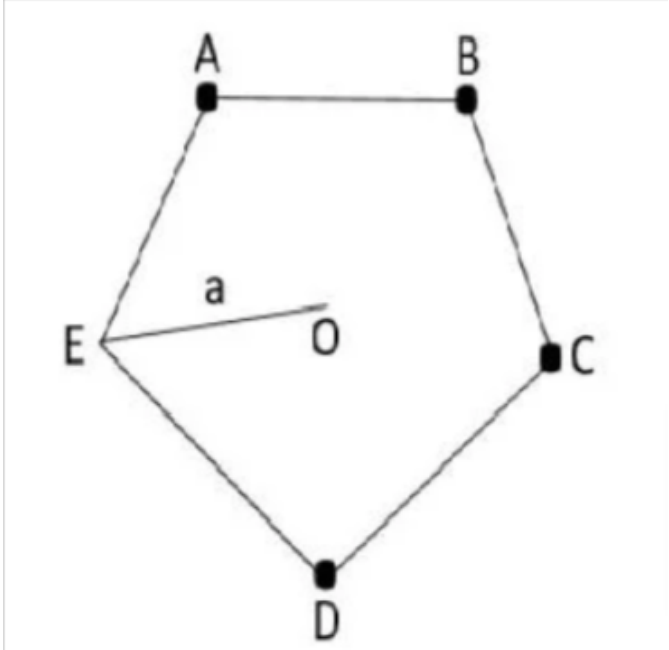
A-I, B-II, C-III, D-IV

(D)

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

Q.No. 105

Four particles each having a charge q are placed on the four vertices of the regular pentagon as shown in figure. The distance of each corner from the centre O is a. The electric field at the centre of the pentagon is



(A)

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Zero

(B)

$$4q/4\pi \in_0 a^2$$

along O E

(C)

$$q/4\pi E_0 a^2$$

along O E

(D)

$$q/4\pi E_C \alpha^2$$

along E O

Q.No. 106

Read the following statements and choose the correct statements:

A: Kishenbhog is a popular mind season mango varieties of West Bengal.

B: Bombay Green is one of the earliest mango variety of North India.

C: Kesar is a popular mango variety of Maharashtra.

D: Dashari is a regular bearing mango variety.

E: Langra is a commercial mango variety of North India.

Choose the correct answer from the options given below:

(A)

A, B and E only

(B)

A, D and E only

(C)

B,C and D only

(D)

A, C and E only

Q.No. 107

The Biopolymer stored in animal body is:

(A)

Amylose

(B)

Cellulose

(C)

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Sucrose

(D)

Glycogen

Q.No. 108

Van de Graaf accelerator can not be used for accelerating

(A)

electron

(B)

proton

(C)

α-particle

(D)

Neutron

Q.No. 109

A cell of 2V and internal resistance 0.5Ω connected across a resistance of 9.5 Ω. How many electron cross through a cross section of the resistance in 1 second?

(A)

$1.25 * 10^{19}$

(B)

$1.25 * 10^{18}$

(C)

$1.25 * 10^{17}$

(D)

$1.25 * 10^{20}$

Q.No. 110

Given below are two statements, one is labelled as Assertion and other is labelled as Reason:

Assertion A: Farmer involved in animal husbandry rarely experience extremely poverty.

Reason R: In the livestock production sector, there is no scheme like minimum support price.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both A and R are correct and R is the correct explanation of A

(B)

Both A and R are correct and R is not the correct explanation of A

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(C)

A is correct but R is incorrect

(D)

A is incorrect but R is correct

Q.No. 111

In a moving coil galvanometer, if we double the number of turns in the coil, the current sensitive doubles. The voltage sensitivity will be-

(A)

remain unchanged

(B)

become 1/4

(C)

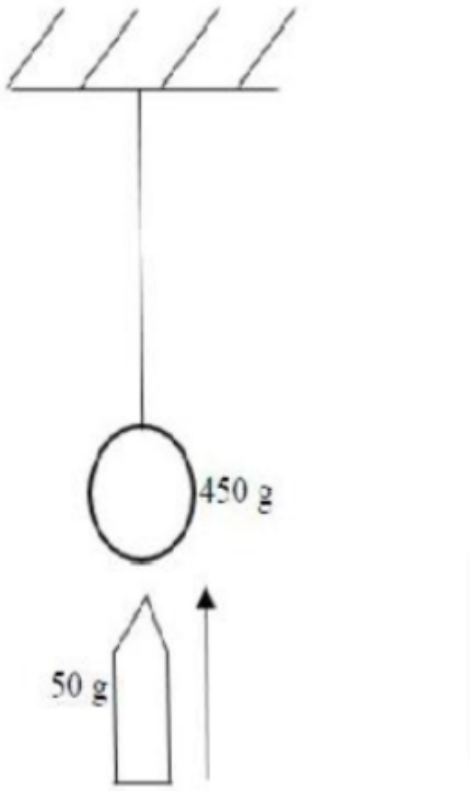
become 1/2

(D)

become double

Q.No. 112

A bullet of mass 50g is fired from below into a bob of mass 450 g of a simple pendulum as shown in figure. The bullets remain inside the bob and the bob rises a height of 1.8 m . The speed of the height is, ($g=10m/s^2$)



(A)

6 m/s

(B)

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60 m/s

(C)

54 m/s

(D)

5.4 m/s

Q.No. 113

Given below are two statements:

Statement I : Enzymes are made up of proteins with complex three dimensional structure.

Statement II: Enzymes are resistant to change in pH and temperature.

In light of the above statement, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

(B)

Both statement I and statement II is incorrect

(C)

statement I is correct but statement II is incorrect

(D)

statement I is incorrect but statement II is correct

Q.No. 114

Disproportionate reaction of HNO_2 gives nitrogenous compound 'X' and 'Y'. Oxidation state of N in 'X' and 'Y' are:

(A)

+4, +1

(B)

+4, +2

(C)

+5, +2

(D)

+5, +1

Q.No. 115

What is the name of fertilizer prepared from Rhizobium culture?

(A)

Bio-fertilizer

(B)

Azotobacterin

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(C)

Rhizobium

(D)

Nitrogin

Q.No. 116

6.241 g of a substance occupies 2.3cm^3, The density of the substance keeping the significant figures in view will be-

(A)

2.7134

(B)

2.713

(C)

2.71

(D)

2.7

Q.No. 117

At a place on earth a vector

$$\vec{A}$$

points vertically upward

$$\vec{B}$$

points towards north. The vector product

$$\vec{A} \times \vec{B}$$

is,

(A)

along west

(B)

along east

(C)

zero

(D)

vertically downward

Q.No. 118

Reaction of quick lime slaked with soda gives compound 'X'. 'X' is.....

(A)

NaOH+CaO

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(B)

$NaOH+Ca(OH)_2$

(C)

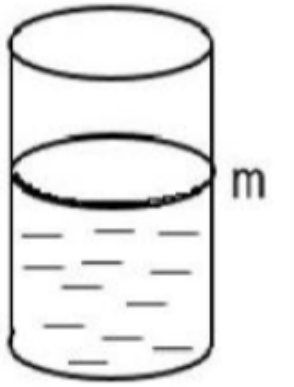
Na_2O+CaO

(D)

$Na_2O+Ca(OH)_2$

Q.No. 119

A cylindrical vessel containing a liquid is closed by the smooth piston of mass m as shown in a figure. The area of cross-section of the piston is A. If the atmosphere pressure is P_0, the pressure of the liquid just below the piston is:



(A)

P_0

(B)

P_0+mg

(C)

P_0+mg/A

(D)

mg/A

Q.No. 120

Which of the following quantities remain constant in a planetary motion as seen from the sun? (Consider elliptical orbit)

(A)

Speed

(B)

Angular Speed

(C)

Kinetic energy

(D)

Angular momentum

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Q.No. 121

Thermal decomposition of Cl_2O_7 at 400 K in the gaseous phase to Cl_2 and O_2 is the first order reaction with rate constant $6.932 * 10^{-3}\ s^{-1}$. How much minutes are required for 90% decomposition of Cl_2O_7 at 400K?

(A)

5.54

(B)

16.61

(C)

33.32

(D)

332.2

Q.No. 122

At a certain place on the earth surface the horizontal component of earth's magnetic field is 0.29G and the dip angle is 60^o. What is the magnetic field of the earth at this place?

(A)

0.58G

(B)

$0.58/\sqrt{3}G$

(C)

$0.29/\sqrt{3}G$

(D)

0.29G

Q.No. 123

Match List I with List II:

List I	List II
Material	Conductance (Sm^{-1})
A. Teflon	I. 2.1×10^{3}
B. Pure Water	II. 1.5×10^{-2}
C. Sodium	III. 1.0×10^{-18}
D. Silicon	IV. 3.5×10^{-5}

Choose the correct answer from the options given below:

(A)

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

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(B)

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

(C)

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

(D)

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

Q.No. 124

Gemstones, Ruby and Sapphire contain 'A' and 'B' respectively as impurities, 'A' and 'B' are

(A)

A=Co;B=Cr

(B)

A=Cr;B=Co

(C)

A=Co;B=Co

(D)

A=Cr;B=Cr

Q.No. 125

A room heater is rated 500 W, 200 V. If the supply voltage drops to 100 V, what will be the power consumed?

(A)

500 W

(B)

250 W

(C)

125 W

(D)

0

Q.No. 126

4p and 5d orbitals have X and Y angular nods, respectively. X and Y are respectively,

(A)

0 and 1

(B)

1 and 2

(C)

2 and 3

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(D)

3 and 4

Q.No. 127

Birbal sahani and Vasantika are cultivars of which among the following crop?

(A)

Chrysnathemum

(B)

Tuberose

(C)

Marigold

(D)

Gladiolus

Q.No. 128

Identify "P" in the given reaction (reaction is not balanced):

$$\mathrm{CO(g) + H_2(\ g) \frac{catalyst}{Co} P}$$

(A)

$CO_2 + H_20$

(B)

CH_3OH

(C)

HCOOH

(D)

HCHO

Q.No. 129

The technique in which the liquid boils, when the sum of vapour pressure due to organic liquid (P_1) and that due to water (P_2) becomes equal to the atmosphere pressure (P) is:

(A)

Sublimation

(B)

Fractional Distillation

(C)

Steam Distillation

(D)

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Evaporation

Q.No. 130

A symmetrical alkene 'A' undergoes ozonolysis to yield 2 mole of a ketone with a molecular mass of 58u. 'A' is:

(A)

2-3 dimethyl But 2-ene

(B)

But-2-ene

(C)

But-1-ene

(D)

3,3- Diethyl-hex-3-ene

Q.No. 131

As compared to ^{12}C atom ^{14}C atom has

(A)

two extra protons and two extra electrons

(B)

two extra protons and no extra electrons

(C)

two extra neutron and no extra electrons

(D)

two extra neutron and two extra electrons

Q.No. 132

A pendulum clock keeping correct time in the surface of earth is taken to high altitude. Then-

(A)

It will keep correct time

(B)

Its length should be increased to keep correct time

(C)

Its length should be decreased to keep correct time

(D)

It cannot keep correct time even if length is changed

Q.No. 133

The density of air at sea level is 1.0kg/m3 and assume that it does not change with the altitude. Then how high would the atmosphere extend? ($g=10m/s^2$, $P_{atm}=1.0 *10^5$ Pa)

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(A)

10^2m

(B)

10^3m

(C)

10^4m

(D)

10^5m

Q.No. 134

Given below are two statements, one is labelled as Assertion and other is labelled as Reason:

Assertion A: Vitamin A deficiency is associated primarily with vision.

Reason R: Sign of Vitamin A deficiency are most likely to occur when cattle are fed high concentrate diet.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both A and R are correct and R is the correct explanation of A

(B)

Both A and R are correct and R is not the correct explanation of A

(C)

A is correct but R is incorrect

(D)

A is incorrect but R is correct

Q.No. 135

A bullet of mass m is fired with speed v_0 on soft plywood of thickness t. The bullet emerges with only half of the initial kinetic energy. What is the emergent speed of the bullet?

(A)

$v_0/8$

(B)

$v_0/4$

(C)

$v_0/2$

(D)

$v_0/\sqrt{2}$

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Q.No. 136

While walking on ice, one should take smaller steps to avoid slipping. This is because

(A)

friction is large

(B)

friction is small

(C)

normal force is large

(D)

normal force is small

Q.No. 137

The radius of curvature of a Plano convex lens can be measured by a-

(A)

Vernier Caliper

(B)

Spherometer

(C)

Screw Guage

(D)

Pyrometer

Q.No. 138

Match List I with List II:

List I	List II
Crop	Rootstock
A. Grape	I. Jatti- Khatt
B. Mango	II. Dog Ridge
C. Guava	III. Kurukan
D. Citrus	IV. Pusa Srijan

Choose the correct answer from the options given below:

(A)

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

(B)

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

(C)

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

(D)

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

Q.No. 139

Given below are two statements:

Statement I : Riverine buffaloes have 50 chromosomes.

Statement II: Swamp buffaloes have 49 chromosomes.

In light of the above statement, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

(B)

Both statement I and statement II is incorrect

(C)

statement I is correct but statement II is incorrect

(D)

statement I is incorrect but statement II is correct

Q.No. 140

In the given reaction (equation is not balanced), 'X' is:

$$\mathrm{FeS_2(\ s) + O_2(\ g) \longrightarrow X(s) + SO_2(\ g)}$$

(A)

FeO

(B)

Fe_2O_3

(C)

Fe_3O_4

(D)

Fe

Q.No. 141

A wire can sustain the weight of 20 kg before breaking. If the wire is cut into two equal pieces, each part can sustain a weight of-

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(A)

10 kg

(B)

20 kg

(C)

40 kg

(D)

80 kg

Q.No. 142

Given below are two statements:

Statement I: High densities of crop plants may increase protein and oil content in grains.

Statement II: In general, high density of crop plants are not conducive for pests and diseases.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

(B)

Both statement I and statement II is incorrect

(C)

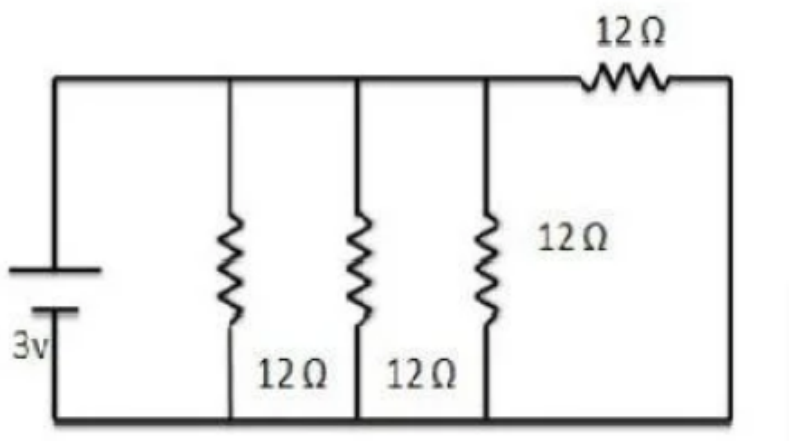
statement I is correct but statement II is incorrect

(D)

statement I is incorrect but statement II is correct

Q.No. 143

The current supplied by the battery in the circuit shown in the figure is, (neglect internal resistance of the battery)



(A)

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1.0 A

(B)

3/16 A

(C)

3/12 A

(D)

3/6 A

Q.No. 144

A proton and an electron are placed in an electric field. Then we can say-

(A)

The electric force acting on them are equal

(B)

The magnitude of the forces are equal

(C)

Their acceleration are equal

(D)

The magnitude of their acceleration are equal

Q.No. 145

Given below are two statements:

Statement I: Bulls require $12m^2$ covered area per animal.

Statement II: Bulls require $120m^2$ open area per animal.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

(B)

Both statement I and statement II is incorrect

(C)

statement I is correct but statement II is incorrect

(D)

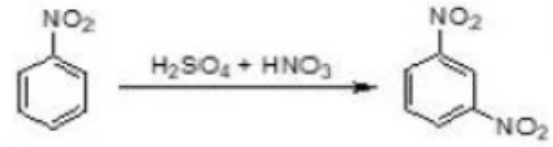
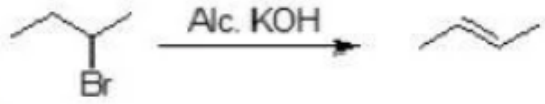
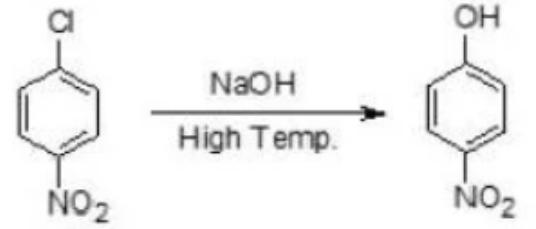
statement I is incorrect but statement II is correct

Q.No. 146

Match List I with List II:

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List I	List II
Reaction	**Type of reaction**
A. 	I. Nucleophilic substitution
B. 	II. Saytzeff elimination
C. 	III. Electrophilic addition
D. 	IV. Electrophilic substitution

Choose the correct answer from the options given below:

(A)

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

(B)

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

(C)

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

(D)

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

Q.No. 147

Given below are two statements:

Statement I: Herbicide mixture broadens the spectrum of herbicidal action for controlling weeds.

Statement II: Independent and antagonistic effect of herbicide mixture increases the weed control efficiency.

In light of the above statements, choose the most appropriate answer from the options given below:

(A)

Both statement I and statement II is correct

(B)

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Both statement I and statement II is incorrect

(C)

statement I is correct but statement II is incorrect

(D)

statement I is incorrect but statement II is correct

Q.No. 148

Two conducting circular loops of radii R_1 and R_2 are placed in the same plane with their centres coinciding. The mutual inductance between them will be, ($R_2 << R_1$)

(A)

$$\frac{\mu_0 \pi R_1^2}{R_2}$$

(B)

$$\frac{\mu_0 \pi R_2^2}{R_1}$$

(C)

$$\frac{\mu_0 \pi R_1^2}{2R_2}$$

(D)

$$\frac{\mu_0 \pi R_2^2}{2R_1}$$

Q.No. 149

A person is moving upward in a balloon with a constant velocity 20 m/s. When the balloon is at a height of 25 m from the ground, the person drops a stone. The stone will hit the ground after the time

(A)

2 s

(B)

3 s

(C)

5 s

(D)

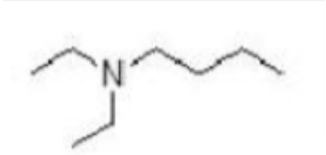
7 s

Q.No. 150

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The IUPAC name of the following amine is:



(A)

N, N-Diethylbuty1amine

(B)

N, N-Diethyl-N-butylamine

(C)

N,N-Diethylbutan-1-amine

(D)

N,N-Diethylbutan-4-amine

Answer Sheet

Q.No	Answer
Q.No. 1	(D)
Q.No. 2	(B)
Q.No. 3	(C)
Q.No. 4	(D)
Q.No. 5	(B)
Q.No. 6	(A)
Q.No. 7	(A)
Q.No. 8	(C)
Q.No. 9	(D)
Q.No. 10	(A)
Q.No. 11	(A)
Q.No. 12	(D)
Q.No. 13	(C)
Q.No. 14	(B)
Q.No. 15	(C)
Q.No. 16	(C)
Q.No. 17	(B)
Q.No. 18	(B)
Q.No. 19	(C)
Q.No. 20	(A)
Q.No. 21	(C)
Q.No. 22	(A)
Q.No. 23	(A)
Q.No. 24	(C)

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Q.No. 25	(B)
Q.No. 26	(B)
Q.No. 27	(C)
Q.No. 28	(D)
Q.No. 29	(C)
Q.No. 30	(D)
Q.No. 31	(A)
Q.No. 32	(B)
Q.No. 33	(D)
Q.No. 34	(D)
Q.No. 35	(C)
Q.No. 36	(C)
Q.No. 37	(C)
Q.No. 38	(B)
Q.No. 39	(B)
Q.No. 40	(A)
Q.No. 41	(A)
Q.No. 42	(C)
Q.No. 43	(D)
Q.No. 44	(B)
Q.No. 45	(A)
Q.No. 46	(C)
Q.No. 47	(A)
Q.No. 48	(A)
Q.No. 49	(D)
Q.No. 50	(C)
Q.No. 51	(C)
Q.No. 52	(A)
Q.No. 53	(C)
Q.No. 54	(B)
Q.No. 55	(C)
Q.No. 56	(A)
Q.No. 57	(B)
Q.No. 58	(A)
Q.No. 59	(D)
Q.No. 60	(A)
Q.No. 61	(B)
Q.No. 62	(B)
Q.No. 63	(D)
Q.No. 64	(A)
Q.No. 65	(C)
Q.No. 66	(A)
Q.No. 67	(B)

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Q.No. 68	(B)
Q.No. 69	(B)
Q.No. 70	(B)
Q.No. 71	(B)
Q.No. 72	(A)
Q.No. 73	(A)
Q.No. 74	(B)
Q.No. 75	(B)
Q.No. 76	(C)
Q.No. 77	(B)
Q.No. 78	(D)
Q.No. 79	(B)
Q.No. 80	(C)
Q.No. 81	(A)
Q.No. 82	(C)
Q.No. 83	(C)
Q.No. 84	(D)
Q.No. 85	(A)
Q.No. 86	(C)
Q.No. 87	(C)
Q.No. 88	(D)
Q.No. 89	(C)
Q.No. 90	(C)
Q.No. 91	(D)
Q.No. 92	(A)
Q.No. 93	(B)
Q.No. 94	(D)
Q.No. 95	(C)
Q.No. 96	(A)
Q.No. 97	(A)
Q.No. 98	(C)
Q.No. 99	(C)
Q.No. 100	(D)
Q.No. 101	(D)
Q.No. 102	(D)
Q.No. 103	(C)
Q.No. 104	(B)
Q.No. 105	(C)
Q.No. 106	(A)
Q.No. 107	(D)
Q.No. 108	(D)
Q.No. 109	(B)
Q.No. 110	(B)

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Q.No. 111	(A)
Q.No. 112	(B)
Q.No. 113	(C)
Q.No. 114	(C)
Q.No. 115	(D)
Q.No. 116	(D)
Q.No. 117	(A)
Q.No. 118	(A)
Q.No. 119	(C)
Q.No. 120	(D)
Q.No. 121	(A)
Q.No. 122	(A)
Q.No. 123	(D)
Q.No. 124	(B)
Q.No. 125	(C)
Q.No. 126	(B)
Q.No. 127	(A)
Q.No. 128	(B)
Q.No. 129	(C)
Q.No. 130	(A)
Q.No. 131	(C)
Q.No. 132	(C)
Q.No. 133	(C)
Q.No. 134	(A)
Q.No. 135	(D)
Q.No. 136	(B)
Q.No. 137	(B)
Q.No. 138	(B)
Q.No. 139	(C)
Q.No. 140	(B)
Q.No. 141	(B)
Q.No. 142	(D)
Q.No. 143	(A)
Q.No. 144	(B)
Q.No. 145	(A)
Q.No. 146	(C)
Q.No. 147	(C)
Q.No. 148	(D)
Q.No. 149	(C)
Q.No. 150	(A)

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