	PHYSICS						
	(SECTION-A)						
1.	If the normal force is efficient of friction is : (A) halved (C) tripled	s doubled, the co- (B) doubled (D) not changed	8.	A force $\vec{F} = 6\hat{i} + 2\hat{j} - 3\hat{k}$ and produces a $\vec{s} = 2\hat{i} - 3\hat{j} + x\hat{k}$. If the the value of x is (A) -2 (B) $1/2$	displacement of		
2.	A man pushes a wall a it. He does (A) Negative work (B) Positive but not ma: (C) No work at all (D) Maximum work	·	9.	A spring of force consinitial stretch 0.20 m stretch to 0.25 m, the inenergy is about (A) 0.1 joule (C) 0.3 joule	tant 10 <i>N/m</i> has an . In changing the		
3.	The same retarding for a train. The train stops speed is doubled, then (A) The same (C) Halved	s after 80 m. If the	10.	Two springs of spring of and 3000 N/m respectively with the same force potential energy in the (A) 4:1 (C) 2:1	tively are stretched b. They will have ratio (B) 1 : 4 (D) 1 : 2		
4.	A body moves a distar straight line under the a N. If the work done is 3 which the force makes motion of the body is (A) 0° (C) 60°	action of a force of 5 25 <i>joules</i> , the angle	11.	If a long spring is stret potential energy is U stretched by 0.1 m , energy will be (A) $\frac{U}{5}$ (C) $5U$	J. If the spring is then its potential (B) U (D) 25 U s m_1 and m_2 have		
5.	A force $F = (5\hat{i} + 3\hat{j})$ ner a particle which displace to the point $r = (2\hat{i} - 1\hat{j})$ done on the particle is (A) - 7 joules (C) + 7 joules	ces it from its origin	13.	equal kinetic energies their respective mom $p_1:p_2$ is equal to (A) $m_1:m_2$ (C) $\sqrt{m_1}:\sqrt{m_2}$	tentum, then ratio $ \text{(B)} \ m_2:m_1 $ $ \text{(D)} \ m_1^2:m_2^2 $		
6.	A particle moves $\vec{r}_1 = 3\hat{i} + 2\hat{j} - 6\hat{k}$ to positi under the action of forework done will be (A) 100 J (C) 200 J	on $\vec{r}_2 = 14\hat{i} + 13\hat{j} + 9\hat{k}$	14.	of masses 4 kg and 8 8kg mass is 6 m/sec. T the other mass is (A) 48 J (C) 24 J Two masses of 1 gr moving with equal kir	(B) 32 J (D) 288 J m and 4 gm are		
7.	In an explosion a body pieces of unequal mass (A) Both parts will have momentum	ses. In this		ratio of the magnitude momenta is (A) 4:1 (C) 1:2	-		
	(B) Lighter part will hav	will have more	15.	If the momentum of a b 100%, then the percen kinetic energy is (A) 150% (C) 225%			
			_				

16.	If the distance between two masses is doubled, the gravitational attraction between them (A) Is doubled (B) Becomes four times (C) Is reduced to half (D) Is reduced to a quarter
17.	The gravitational force F_g between two

- objects does not depend on
 - (A) Sum of the masses
 - (B) Product of the masses
 - (C) Gravitational constant
 - (D) Distance between the masses
- 18. The value of 'g' at a particular point is $9.8 \, m \, / \, s^2$. Suppose the earth suddenly shrinks uniformly to half its present size without losing any mass. The value of 'g' at the same point (assuming that the distance of the point from the centre of earth does not shrink) will now be
 - (A) $4.9 \, m \, / \, \text{sec}^2$
- (B) $3.1 \, m \, / \sec^2$
- (C) $9.8 \, m \, / \, \text{sec}^2$
- (D) $19.6 \, m \, / \, \text{sec}^2$
- 19. If R is the radius of the earth and q the acceleration due to gravity on the earth's surface, the mean density of the earth is
 - (A) $4\pi G/3gR$
- (B) $3\pi R / 4gG$
- (C) 3g/4πRG
- (D) $\pi RG/12G$
- 20. Spot the wrong statement:

The acceleration due to gravity 'g' decreases if

- (A) We go down from the surface of the earth towards its centre
- (B) We go up from the surface of the earth
- (C) We go from the equator towards the poles on the surface of the earth
- (D) The rotational velocity of the earth is increased
- The value of g on the earth's surface is 21. 980 cm / sec². Its value at a height of 64 km from the earth's surface is
 - (A) 960.40 cm / sec²
 - (B) 984.90 cm / sec²
 - (C) 982.45 cm / sec²
 - (D) 977.55 cm / sec²
- 22. At what altitude in metre will the acceleration due to gravity be 25% of that at the earth's surface (Radius of earth = Rmetre)
 - (A) $\frac{1}{4}R$
- (B) R
- (C) $\frac{3}{8}R$ (D) $\frac{R}{2}$

23. Mass of moon is 7.34×10^{22} kg. If the acceleration due to gravity on the moon is $1.4 \, m \, / \, s^2$, the radius of the moon is

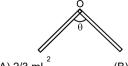
$$(G = 6.667 \times 10^{-11} Nm^2 / kg^2)$$

- (A) $0.56 \times 10^4 m$
- (B) $1.87 \times 10^6 m$
- (C) $1.92 \times 10^6 m$
- (D) $1.01 \times 10^8 m$
- 24. If the mass of earth is 80 times of that of a planet and diameter is double that of planet and 'g' on earth is $9.8 \, m/s^2$, then the value of 'g' on that planet is
 - (A) $4.9 \, m/s^2$
- (B) $0.98 \, m/s^2$
- (C) $0.49 \, m/s^2$
- (D) $49 \, m/s^2$
- 25. The density of a newly discovered planet is twice that of earth. The acceleration due to gravity at the surface of the planet is equal to that at the surface of the earth. If the radius of the earth is R, the radius of the planet would be
 - (A) 2R
- (B) 4R
- (C) $\frac{1}{4}R$
- (D) $\frac{1}{2}R$
- 26. In a gravitational field, at a point where the gravitational potential is zero
 - (A) The gravitational field is necessarily zero
 - (B) The gravitational field necessarily zero
 - (C) Nothing can be said definitely about the gravitational field
 - (D) None of these
- 27. The gravitational potential energy of a body of mass 'm' at the earth's surface $-mgR_{_{e}}$. Its gravitational potential energy at a height R_e from the earth's surface will be (Here R_{e} is the radius of the earth)
 - (A) $-2mgR_e$
- (B) $2 mgR_e$
- (C) $\frac{1}{2} mgR_e$ (D) $-\frac{1}{2} mgR_e$
- 28. The escape velocity from the earth is about 11 km/second. The escape velocity from a planet having twice the radius and the same mean density as the earth, is
 - (A) 22 km/sec
- (B) 11 km/sec
- (C) 5.5 km/sec
- (D) 15.5 km/sec

- 29. If v_e and v_o represent the escape velocity and orbital velocity of a satellite corresponding to a circular orbit of radius R, then
 - (A) $v_e = v_o$
 - (B) $\sqrt{2}v_{0} = v_{e}$
 - (C) $v_e = v_0 / \sqrt{2}$
 - (D) v_e and v_a are not related
- 30. If the height of a satellite from the earth is negligible in comparison to the radius of the earth R, the orbital velocity of the satellite is
 - (A) gR
- (B) gR/2
- (C) $\sqrt{g/R}$
- (D) \sqrt{gR}
- **31.** All the particles of a rigid body in a rotatory motion have axis of rotation:
 - (A) Passing from any point inside the object
 - (B) Passing from any point outside the object
 - (C) Passing from any point
 - (D) Passing from centre of mass of object
- 32. A wheel has angular acceleration of 3.0 rad/s² and an initial angular speed of 2.0 rad/s. In a time of 2s it has rotated through an angle (in radian) of
 - (A) 6
- (B) 10
- (C) 12 (D) 4
- 33. A block hangs from a string wrapped on a disc of radius 20 cm free to rotate about its axis which is fixed in a horizontal position. If the angular speed of the disc is 10 rad/s at some instant, with what speed is the block going down at that instant?
 - (A) 4 m/s
- (B) 3 m/s
- (C) 2 m/s
- (D) 5 m/s
- **34.** From the theorem of perpendicular axes. If the lamina is in X- Y plane
 - (A) $I_{x} I_{y} = I_{z}$
- (B) $I_x + I_z = I_y$
- (C) $I_{x} + I_{y} = I_{z}$
- (D) $I_{y} + I_{z} = I_{x}$
- **35.** The moment of inertia of a straight thin rod of mass M and length I about an axis perpendicular to its length and passing through its one end, is
 - $(A) Ml^{2}/12$
- (B) MI²/3
- (C) MI²/2
- (D) MI²

(SECTION-B)

- 36. Three point masses each of mass m are placed at the corners of an equilateral triangle of side 'a'. Then the moment of inertia of this system about an axis passing along one side of the triangle is
 - (A) ma
- (B) 3 ma²
- (C) 3/4 ma²
- (D) 2/3 ma²
- 37. Two rings have their moments of inertia in the ratio 2 : 1 and their diameters are in the ratio 2 : 1. The ratio of their masses will be
 - (A) 2:1
- (B) 1:2
- (C) 1:4
- (D) 1:1
- 38. If the moment of inertia of a disc about an axis tangential and parallel to its surface be I, then what will be the moment of inertia about the axis tangential but perpendicular to the surface
 - (A) $\frac{6}{5}$
- (B) $\frac{3}{4}$
- (C) $\frac{3}{2}$ I
- (D) $\frac{5}{4}$ I
- 39. One circular ring and one circular disc, both are having the same mass and radius. The ratio of their moments of inertia about the axes passing through their centres and perpendicular to their planes. will be
 - (A) 1:1
- (B) 2:1
- (C) 1: 2
- (D) 4:1
- **40.** The moment of inertia in rotational motion will be equivalent to as in linear motion :
 - (A) mass
- (B) velocity
- (C) momentum
- (D) force
- 41. A thin rod of length L and mass M is bend at the middle point O as shown in figure. Consider an axis passing through two middle point O and perpendicular to the plane of the bent rod. Then moment of inertia about this axis is:



- (A) 2/3 mL²
- (B) 1/3 mL²
- (C) 1/12 mL²
- (D) 1/24 mL²

- **42.** A circular disc is to be made using iron and aluminium. To keep its moment of inertia maximum about a geometrical axis, it should be so prepared that :-
 - (A) aluminium at interior and iron surrounds it
 - (B) iron at interior and aluminium surrounds it
 - (C) aluminium and iron layers in alternate order
 - (D) sheet of iron is used at both external surfaces and aluminium sheet as inner material
- 43. The ratio of the radii of gyration of a circular disc about a tangential axis in the plane of the disc and of a circular ring of the same radius about a tangential axis in the plane of the ring is
 - (A) 2:3
- (B) 2:1
- (C) $\sqrt{5}$: $\sqrt{6}$
- (D) 1:√2
- 44. A body whose moment of inertia is 3 kgm² is in rest. It is rotated for 20 sec by a
 torque of 6 Nm, angular displacement of
 the body will be:
 - (A) 400 radian
- (B) 200 radian
- (C) 100 radian
- (D) 250 radian
- **45.** When a mass is rotating in a plane about a fixed point, its angular momentum is directed along
 - (A) radius
 - (B) the tangent to the orbit
 - (C) a line perpendicular to the plane of rotation
 - (D) none of the above
- 46. Assertion: If there is no external torque on a body about its centre of mass, then the velocity of the center of mass remains constant

because

Reason

The linear momentum of an isolated system remains constant.

- (A) Assertion is True, Reason is True; Reason **is** a correct explanation for Assertion
- (B) Assertion is True, Reason is True; Reason is **NOT** a correct explanation for Assertion
- (C) Assertion is True, Reason is False
- (D) Assertion is False, Reason is True.

47. Assertion: The work done by all forces on a system equals to the change in kinetic energy of that system. This statement is true even if nonconservative forces act on the system.

Reason: The total work done by internal forces may be positive.

(A) Assertion: is True, Reason: is True; Reason: is a correct explanation for Assertion:

(B) Assertion: is True, Reason: is True; Reason: is NOT a correct explanation for Assertion:

(C) Assertion: is True, Reason: is False

(D) Assertion: is False, Reason: is True.

48. Match the following

Column I

- (A) Gravitational field intensity
- (B) Gravitational potential
- (C) Square of the period of planets revolving around the sun
- (D) All planets are revolving around the sun

Column II

- (p) Elliptical orbit
- (q) Cube of semi major axis
- (r) Gravitational force per unit mass
- (s) Work done per unit mass
- (A) $A \rightarrow p$; $B \rightarrow q$; $C \rightarrow r$; $D \rightarrow s$
- (B) $A \rightarrow r$; $B \rightarrow s$; $C \rightarrow q$; $D \rightarrow p$
- (C) $A \rightarrow q$; $B \rightarrow s$; $C \rightarrow p$; $D \rightarrow r$
- (D) $A \rightarrow s$; $B \rightarrow p$; $C \rightarrow r$; $D \rightarrow q$
- **49. Assertion**: At pole value of acceleration due to gravity (g) is greater than that of equator.

Reason: Earth rotates on its axis in addition to revolving round the sun.

- (A) Assertion: is True, Reason: is True; Reason: is a correct explanation for Assertion:
- (B) Assertion: is True, Reason: is True; Reason: is NOT a correct explanation for Assertion:
- (C) Assertion : is True, Reason : is False
- (D) Assertion: is False, Reason: is True.
- **50.** If net force acting on system of particles is zero, choose an incorrect option regarding the motion of the mass of the system.
 - (A) Acceleration of COM will always be zero.
 - (B) Velocity of COM will always be zero.
 - (C) Both (A) and (B)
 - (D) None of these

CHEMISTRY

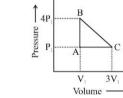
- 51. A gas absorbs 200 J of heat and expands against the external pressure of 1.5 atm from a volume of 0.5 litre to 1.0 litre, Calculate the change in internal energy -
 - (A) 124 J
- (B) 224 J
- (C) 114 J
- (D) 154 J
- 52. Heat of reaction for $C_6H_{12}O_6$ (s) + $6O_2$ (g) \rightarrow 6CO₂(g)+ 6H₂O (g) at constant pressure is -651 kcal at 17°C. Calculate the heat of reaction at constant volume at 17°C-
 - (A) 554.5 kcal
- (B) 654.5 kcal
- (C) 354.5 kcal
- (D) 154.5 kcal
- A cooking gas cylinder is assumed to 53. 11.2 kg isobutane. combustion of isobutane is given by-
 - C_4H_{10} (g) + $\left(\frac{13}{2}\right)$ O_2 (g) \rightarrow 4CO $_2$ (g) +

 - $\Delta H = -2658 \text{ kJ}$
 - If a family needs 15000 kJ of energy per day for cooking, how long would the cylinder last?
 - (A) 22 days
- (B) 28 days
- (C) 32 days
- (D) 34 days
- 54. Calculate the entropy change in melting 1 mole of ice at 273K, $\Delta H_f^{\circ} = 6.025 \text{ kJ/mole} - (A) 11.2 \text{ JK}^{-1} \text{ mol}^{-1}$ (B) 22.1 JK⁻¹ mol⁻¹ (A) 11.2 JK⁻¹ mol⁻¹
 - (C) 15.1 JK⁻¹ mol⁻¹
- (D) 5.1 JK⁻¹ mol⁻¹
- 55. Determine the standard free energy change for the following reaction at 298 K. $N_2(g) + 3H_2(g) \rightarrow 2NH_3(g)$ Given ΔG^{o}_{f} for $N_{2}(g)$, $H_{2}(g)$ and $NH_{3}(g)$ are 0, 0 and -16.66 kJ mol-
 - (A) 11.22 kJ
- (B) 22.22 kJ
- (C) 33.32 kJ
- (D) 44.44 kJ
- 56. For a gaseous reaction
 - $2A_2(g) + 5B_2(g) \rightarrow 2A_2B_5(g)$
 - at 27°C the heat change at constant pressure is found to be -50160 J. Calculate the value of internal energy change (ΔE). Given that R = 8.314 J/K mol.
 - (A) -34689 J (C) -27689 J
- (B) -37689 J
- (D) –38689 J
- 57. Calculate the standard enthalpy change for a reaction $CO_2(g)$ + $H_2(g) \rightarrow CO(g)$ + H_2O (g) given that ΔH_f^0 for $CO_2(g)$, CO(g)and H₂O(g) as -393.5, -110.5 and -241.8 kJ/mol respectively.
 - (A) -31.2 kJ
- (B) 21.2 kJ
- (C) -11.2 kJ
- (D) + 41.2kJ

- Calculate the work performed when 2 moles of hydrogen expand isothermally and reversibly at 25°C from 15 to 50 litre.
 - (A) -1300.87 cal.
- (B) -1400.87 cal.
- (C) -1426.87 cal.
- (D) +1426.87 cal.
- 59. At 25°C for the combustion of 1 mole of liquid benzene the heat of reaction at constant pressure is given by,

$$\label{eq:c6H6} \begin{split} &C_6H_6~(\ell)~+~\frac{15}{2}~O_2~(g)\rightarrow 6CO_2~(g)+~3H_2O\\ &(\ell)~;~\Delta H=-780980~cal. \end{split}$$

- What would be the heat of reaction at constant volume?
- (A) 780086 cal.
- (B) + 780086 cal.
- (C) 780000 cal.
- (D) + 775086 cal.
- 60. The enthalpy of fusion of ice is 6.02 kJ mol⁻¹. The heat capacity of water is 4.18 J g⁻¹ C⁻¹. What is the smallest number of ice cubes at 0°C each containing one mole of water, that are needed to cool 500 g of liquid water from 20°C to 0°C?
 - (A) 1
- (B) 7
- (C) 14
- (D) 125
- 61. The bond dissociation energies for single covalent bonds formed between carbon and A, B, C, D and E atoms are:
 - Bond energy (kcal mol⁻¹) Bond
 - (i) C A (ii) C B 240
 - 382
 - (iii) C D 276
 - (iv) C E 486
 - This indicates that the smallest atom is: (D) E
 - (A) A
- (B) B
- (C) C
- 62 An ideal gas is taken around the cycle ABCA as:



- (A) 12P₁V₁
- (B) 6P₁V₁
- (C) 3P₁V₁
- (D) P₁V₁
- 63. Consider the following two reactions:
 - (i) Propene + $H_2 \longrightarrow Propane ; \Delta H_1$
 - (ii) Cyclopropane + $H_2 \longrightarrow Propane$; ΔH_2 Then, $\Delta H_2 - \Delta H_1$ will be :
 - (A) 0
 - (B) 2BE_{C-C} BE_{C=C}
 - (C) BE_{C=C}
 - (D) 2BE_{C=C} BE_{C-C}

- 64. 4.48 L of an ideal gas at S.T.P requires 12 calories to raise its temperature by $15C^{\circ}$ at constant volume. The C_{P} of the gas is :
 - (A) 3 cal

(B) 4 cal

(C) 7 cal

(D) 6 cal

65. For a chemical reaction,

 $2A_2(g) + 5B_2(g) \longrightarrow 2A_2B_5(g)$

at 27°C the difference between ΔH and Δ E is X.

Then the ratio X/R -

(A) Zero

(B) Unity

 $(C) - 5 \times 10^{0}$

(D) -1.5×10^3

66. One litre-atmosphere is approximately equal to-

(A) 19.2 J

(B) 101 J

(C) 8.31 J

(D) 831 J

67. Ammonium nitrate can decompose with explosion by the following reaction.

 $NH_4NO_3(s) \rightarrow N_2O(g) + 2H_2O \; ; \;$

 $\Delta H = -37.0 \text{ kJ/mol}$

Calculate the heat produced when 2.50 g of NH4NO3 decomposes -

(A) 1.06 kJ

(B) 0.96 kJ

(C) 1.16 kJ

(D) 1.26 kJ

- **68.** The enthalpy of combustion of a substance -
 - (A) is always positive.
 - (B) is always negative.
 - (C) can be either zero or greater than zero.
 - (D) is unpredictable till calculations are done.
- **69.** According to Hess's Law the thermal effect of a reaction depends on -
 - (A) initial concentration of reactants
 - (B) final condition of the reacting substance
 - (C) intermediate states of a reaction
 - (D) initial and final conditions of the reacting substances
- 70. Free energy change of reversible reaction at equilibrium is -
 - (A) Infinite

(B) Zero

(C) Positive

(D) Negative

71. Which one of the following is correct?

$$(A) - \Delta G = \Delta H - T\Delta S$$

(B) Δ H = Δ G $-T\Delta$ S

(C)
$$\Delta S = \frac{1}{T} [\Delta G - \Delta H]$$

(D)
$$\Delta S = \frac{1}{T} [\Delta H - \Delta G]$$

- 72. In any natural process -
 - (A) The entropy of the universe remains constant
 - (B) The entropy of universe tends towards maximum.
 - (C) The entropy of universe tends towards minimum.
 - (D) Any of the above can happen
- 73. For the reaction between CO_2 and graphite CO_2 (g) + $C(s) \rightarrow 2CO(g) \Delta H = + 170.0 \text{ kJ}$ and $\Delta S = 170 \text{ J K}^{-1}$. The reaction is spontaneous at -

(A) 298 K

(B) 500 K

(C) 900 K

(D) 1200 K.

74. For which of the following substances, the standard heat of formation is zero:

(A) C_(graphite)

(B) C_(diamond)

(C) CO₂

(D) O_3

- **75.** For the spontaneity of a reaction , which is true?
 - (A) $\Delta G = +ve$, $\Delta H = +ve$
 - (B) Δ H = +ve, Δ S = -ve
 - (C) Δ G = + ve, Δ H = ve
 - (D) Δ H = ve, Δ S = + ve
- **76.** The quantity required to increase the temperature of a body by 1 Kelvin is called -
 - (A) specific heat
 - (B) water equivalent
 - (C) thermal capacity
 - (D) molar specific heat
- 77. "Heat cannot be itself flow from a body at lower temperature to a body at higher temperature" is a statement or consequence of
 - (A) Conservation of momentum
 - (B) Conservation of mass
 - (C) First law of thermodynamics
 - (D) Second law of thermodynamics
- 78. During complete combustion of one mole of butane, 2658 kJ of heat is released. The thermochemical reaction for above change is:

(A) $2C_4H_{10}(g) + 13 O_2(g) \rightarrow 8CO_2(g) + 10$

 $H_2O(\ell) \Delta_C H = -2658.0 \text{ kJ mol}^{-1}$

(B) $C_4H_{10}(g) + 13/2 O_2 (g) \rightarrow 4CO_2 (g) + 5$ $H_2O(\ell)\Delta_CH = -1329.0 \text{ kJ mol}^{-1}$

(C) $C_4H_{10}(g) + 13/2 O_2(g) \rightarrow 4CO_2(g) + 5$ $H_2O(\ell)\Delta_CH = -2658.0 \text{ kJ mol}^{-1}$

(D) $C_4H_{10}(g) + 13/2 O_2(g) \rightarrow 4CO_2(g) + 5$ $H_2O(\ell)\Delta_CH = + 2658.0 \text{ kJ mol}^{-1}$

- 79. For hypothetical reaction?
 - $A(q) + B(q) \rightarrow C(q) + D(q)$

Which of the following statements is correct?

- (A) $\Delta H = \Delta E$
- (B) $\Delta H > \Delta E$
- (C) $\Delta H < \Delta E$
- (D) unpredictable
- 80. Select the correct order in the following:
 - (A) 1 erg > 1 J > 1 cal
 - (B) 1 cal > 1 J > 1 erg
 - (C) 1 erg > 1 cal > 1 J
 - (D) 1 J > 1 cal > 1 erg
- 81. Which among the following is not a state function?
 - (A) Internal energy
- (B) Free energy
- (C) Work
- (D) Enthalpy
- In the combustion of 4 g. of CH₄, 2.5 kcal 82. of heat is liberated. The heat of combustion of CH4 is -
 - (A) 20 kcals
- (B) 10 kcals
- (C) 2.5 kcals
- (D) 5 kcals
- 83. Enthalpy of formation of compound is -
 - (A) always positive
 - (B) always negative
 - (C) can be either negative or zero
 - (D) can be positive or negative
- 84. The enthalpies of elements in their standard states are taken as zero. The enthalpy of formation of a compound:
 - (A) is always negative
 - (B) may be positive or negative
 - (C) is always positive
 - (D) is never negative
- 85. A solution of 500 mL of 0.2 M KOH and 500 mL of 0.2 M HCl is mixed and stirred; the rise in temperature is T₁. The experiment is repeated using 250 mL of each solution, the temperature raised is T₂. Which of the following is true?
 - (A) $T_1 = T_2$
- (B) $T_1 = 2T_2$
- (C) $T_1 = 4T_2$
- (D) $T_2 = 9T_1$

(SECTION-B)

- 86. The enthalpy of formation of ammonia is -46.0 kJ mol⁻¹. The enthalpy for the reaction $2N_2(g) + 6 H_2(g) \rightarrow 4 NH_3(g)$ is equal to -
 - (A) 46.0 kJ
- (B) 46.0 kJ
- (C) 184.0 kJ
- (D) -184.0 kJ

- 87. Which of the following has highest entropy?
 - (A) Water
- (B) Graphite
- (C) Mercury
- (D) Hydrogen
- 88. Calculate the temperature at which $\Delta G = 5.2 \text{ kJ mol}^{-1} \text{ } \text{AH} = 145.6 \text{ kJ mol}^{-1} \text{ and } \text{ } \text{AS} =$ 216 J K⁻¹ mol⁻¹ for a chemical reaction -
 - (A) 698°C
- (B) 425°C
- (C) 650 K
- (D) 650°C
- 89. If the enthalpy of vapourisation of water is 186.5 J mol⁻¹, the entropy of its vaporisation will be-
 - (A) $0.5 \text{ J K}^{-1} \text{ mol}^{-1}$
- (B) 1.0 J K⁻¹ mol⁻¹
- (C) 1.5 J K⁻¹ mol⁻¹
- (D) 2.0 J K⁻¹ mol⁻¹
- 90. A gas is allowed to expand at constant pressure from a volume of 1.0 litre to 10.0 litre against an external pressure of 0.50 atm. If the gas absorbs 250 J of heat from the surroundings, what are the values of q, w and Δ E? (Given 1 L atm = 101 J)
 - ΛЕ q w
 - (A) 250 J - 455 J - 205 J
 - (B) -250 J 455 J- 710 J
 - (C) 250 J 710 J 455 J
 - (D) -250 J 455 J 205 J
- 91. Which of the following state function is not zero at standard state?
 - (A) Enthalpy
 - (B) Entropy
 - (C) Free energy
 - (D) Entropy and enthalpy
- 92. Which law of thermodynamics helps in calculating the absolute entropies of various substances different temperatures?
 - (A) First law
- (B) Second law
- (C) Third law
- (D) Zeroth law
- 93. The product of combustion of an aliphatic thiol (R SH) at 298 K are:
 - (A) $CO_{2(q)}$, $H_2O_{(q)}$ and $SO_{2(q)}$
 - (B) $\text{CO}_{\text{2(g)}}\text{, H}_{\text{2}}\text{O}(\,\ell\,\,)$ and $\text{SO}_{\text{2(q)}}$
 - (C) $CO_{2(\ell)}$, $H_2O_{(\ell)}$ and $SO_{2(g)}$
 - (D) $CO_{2(q)}$, $H_2O(\ell)$ and $SO_{2(l)}$

- 94. An exothermic reaction has a large positive entropy change. The reaction will be -
 - (A) Possible \rightarrow Spontaneous at all temperatures
 - (B) Possible \rightarrow Spontaneous at low temperatures only
 - (C) Impossible \rightarrow Non-spontaneous at all temperatures
 - (D) Possible \rightarrow Spontaneous at high temperature only
- **95.** The heat of formation of water is given by :
 - (A) $H_{2(g)} + \frac{1}{2}O_{2(g)} \longrightarrow H_2O(I); \Delta H = -68.3 \text{ kcal}$
 - (B) $2H_{2(g)} + O_{2(g)} \longrightarrow 2H_2O(I); \Delta H = 136.6 \text{ kcal}$
 - (C) $H_{2(g)} + \frac{1}{2}O_{2(g)} \longrightarrow H_2O_{2(g)}; \Delta H = -86 \text{ kcal}$
 - (D) $H_{2(g)} + \frac{1}{2}O_{2(g)} \longrightarrow H_2O_{(i)}; \Delta H = +68.3 \text{ kcal}$
- **96.** The occurrence of reaction is impossible if :
 - (A) ΔH is +ve ; ΔS is +ve
 - (B) ΔH is -ve ; ΔS is -ve
 - (C) ΔH is -ve; ΔS is +ve
 - (D) ΔH is +ve; ΔS is -ve
- Assertion (A): Average velocity of gas molecules in a container moving in one dimension is zero.
 - **Reason (R) :** Gas molecules are uniformaly distributed in the container at any given condition.
 - (A) If both (A) and (R) are true, and (R) is the correct explanation of (A).
 - (B) If both (A) and (R) are true but (R) is not the correct explanation of (A).
 - (C) If (A) is true but (R) is false.
 - (D) If (A) is false but (R) is true.

- **98.** Assertion (A): Rate of effusion increases with the increase in temperature
 - **Reason (R)**: Rate of effusion increases with the increase in pressure
 - (A) If both (A) and (R) are true, and (R) is the correct explanation of (A).
 - (B) If both (A) and (R) are true but (R) is not the correct explanation of (A).
 - (C) If (A) is true but (R) is false.
 - (D) If (A) is false but (R) is true.
- **99. Assertion**: Kinetic energy of photoelectrons is directly proportional to the intensity of the incident radiation.

Reason: Each photon of light causes the emission of only one photo electron.

- (A) If both (A) and (R) are true, and (R) is the correct explanation of (A).
- (B) If both (A) and (R) are true but (R) is not the correct explanation of (A).
- (C) If (A) is true but (R) is false.
- (D) If (A) is false but (R) is true.
- **100. Assertion**: An exothermic reaction in principle cannot have zero activation energy.

Reason: In exothermic reaction Σ H (Products) < Σ H (Reactants).

- (A) If both (A) and (R) are true, and (R) is the correct explanation of (A).
- (B) If both (A) and (R) are true but (R) is not the correct explanation of (A).
- (C) If (A) is true but (R) is false.
- (D) If (A) is false but (R) is true.

BIOLOGY

BOTANY (SECTION-A)

- **101.** Name the family having (9) +1 arrangement of stamens
 - (A) Solanaceae
- (B) Fabaceae
- (C) Liliaceae
- (D) Asteraceae
- **102.** In which of the following plants, primary root is ephemeral and new roots originate from the base of stem?
 - (A) Banyan tree
- (B) Wheat
- (C) Mango
- (D) Rhizophora
- **103.** Which one is not related to roots in monocotyledons plants?
 - (A) The primary root is short lived.
 - (B) Root never originates from the radicle part of embryo.
 - (C) Presence of fibrous root system.
 - (D) Roots originate from the base of the stem.
- **104.** Root hairs develop from
 - (A) Region of maturation.
 - (B) Region of elongation.
 - (C) Region of cell division
 - (D) Meristematic zone.
- 105. The region of root tip whose cells undergo rapid elongation and enlargement and are responsible for the growth of the root in length is called the
 - (A) Region of maturation.
 - (B) Region of elongation.
 - (C) Region of meristematic activity.
 - (D) Root hairs.
- **106.** Read the following statements about stem and identify them as true (T) or false (F).
 - (A) Ascending part of plant axis.
 - (B) Develops from radicle of the embryo of a germinating seed.
 - (C) Generally green when older but brown when young.
 - (D) It may preform function of vegetative propagation.

	Α	В	С	D
(A)	Т	F	F	Т
(B)	Т	Т	F	Т
(C)	T	T	F	F
(D)	Т	F	F	F

- 107. The main plant body of bryophytes is
 - A. More differentiated than algae
 - B. Lacked true roots, stem or leaves
 - C. Gametophytic that usually occurs in damp, humid and shaded localities
 - D. Prostrate or erect and attached to substratum by unicellular or multicellular rhizoids
 - The correct options are

- (A) Only (A), (B) and (C)
- (B) Only (A) and (C)
- (C) Only (B), (C) and (D)
- (D) All (A), (B), (C) and (D)
- 108. In a moss, the sporophyte
 - (A) Is partially dependent on photosynthetic gametophyte
 - (B) Produces gametes that give rise to gametophyte
 - (C) Develops from germination of spore
 - (D) More than one option is correct
- 109. Compositae is also known as
 - (A) Fabaceae
- (B) Poaceae
- (C) Liliaceae
- (D) Asteraceae
- 110. The spread of living pteridophytes is limited and restricted to narrow geographical region because of
 - (A) Requirement of water by male and female gametes for fertilization
 - (B) Gametophytes require cool, damp and shady places to grow
 - (C) Development of two kind of spores
 - (D) All except
- **111.** In family Gramineae, the inflorescence is
 - (A) Spike of spikelet
- (B) Verticellaster
- (C) Hypanthodium
- (D) Capitulum
- 112. Leaves are modified into spines and stems become fleshy and flattened to carry out photosynthesis. Such modified stem is present in
 - (A) Opuntia.
 - (B) Euphorbia.
 - (C) Mangrove plant.
 - (D) Both (A)and (B).
- **113.** Four sepals arranged in two whorls is characteristic of family
 - (A) Solanaceae
 - (B) Fabaceae
 - (C) Brassicaceae (Cruciferae)
 - (D) Liliaceae.

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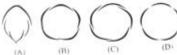
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- 114. Select the option that is correct for the description of subaerial modification.
 - A A slender lateral branch arises from the base of the main axis and, after growing aerially for some time, arches downwards to touch the ground.
 - B. A lateral branch originates from the basal and underground portion of the main stem, grows horizontally beneath the soil, and comes out obliquely upwards, giving rise to leafy shoot.

	Α	В
(A)	Sucker	Runner
(B)	Runner	Stolon
(C)	Stolon	Sucker
(D)	Stolon	Offset

- 115 Opposite phyllotaxy of leaves is found in
 - (A) Mustard, sunflower.
 - (B) Guava, China rose.
 - (C) Calotropis, guava.
 - (D) Nerium, Alstonia.
- 116. Read the following statements and select the correct option.
 - A. Veins provide rigidity to the leaf blade and act as the channel of transport for water, minerals, and food materials
 - B. Leaves of most of the dicotyledonous plants bear veins that run parallel to each other within a lamina.
 - (A) Only (A) is incorrect.
 - (B) Only (B) is incorrect.
 - (C) Both (A) and (B) are incorrect.
 - (D) Both (A) and (B) are correct.
- 117. The aestivation in petals of China rose and Gulmohar plants can be shown respectively, by

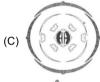


- (A) B and A
- (B) C and B
- (C) C and D
- (D) D and C
- 118. Flowers can be divided into two equal radial halves in any radial plane passing through the centre in
 - (A) Pea and bean.
 - (B) Datura and chilli.
 - (C) Canna and Gulmohar.
 - (D) Gulmohar and cassia
- 119. In the members of family malvaceae, anthers are described as
 - (A) Diadelphous and dithecous
 - (B) Diadelphous and monothecous
 - (C) Monadelphous and dithecous
 - (D) Monadelphous and monothecous

- 120. All are true for endosperm, except
 - (A) It is formed as a result of double fertilization.
 - (B) Food-storing tissue in castor.
 - (C) Present in the mature monocotyledonous seeds
 - (D) It is bulky and stores food in orchids.
- 121. Floral diagram of the family to which Tulip and Gloriosa belong is









- 122. Select the correct option for the floral formula of the plant which has the following features:
 - (i) Zygomorphic, bisexual flowers
 - (ii) Petals five with vexillary aestivation
 - (iii) Ten stamens arranged in diadelphous condition
 - (iv) Gynoecium monocarpellary superior ovary
 - (A) $\oplus \emptyset^{t}K_{(5)}C_{1+2+(2)}A_{(9)+1}\underline{G}_{1}$
 - (B) $\% \sl K_{(5)} C_{1+2+(2)} A_{(9)+1} \underline{G}_1$
 - (C) $\% \not\subset K_{(5)}C_{1+2+(2)}A_{(5)+(5)}\underline{G}_1$
 - (D) $\oplus \emptyset K_{(5)}C_{1+2+(2)}A_{(5)+(5)}\underline{G}_{1}$
- 123. At places, the cork contains aerating porescalled
 - (A) Stomata.
 - (B) Lenticels.
 - (C) Hydathode.
 - (D) Pneumatothodes.
- 124. The cork cambium, cork, and secondary cortex are collectively called
 - (A) Phelloderm.
- (B) Phellogen.
- (C) Periderm.
- (D) Polyderm.

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125.	Select the incorrectly matched pair: (A) Psilopsida - Psilotum (B) Lycopsida - Selaginella (C) Sphenopsida - Dryopteris	135.	Apical meristem of the root is present (A) Only in radicle. (B) Only in tap roots. (C) Only in adventitious roots		Formatiert: Block, Einzug: Links cm, Hängend: 1,27 cm, Tabstop 1,27 cm, Links + 3,1 cm, Links + cm, Links + 6,86 cm, Links	ps:
l	(D) Pteridopsida - Adiantum		(D) In all the roots.	/ ,	Formatiert: Block, Einzug: Links	s. U
I	(b) I teridopsida - Adiantam		(b) in all the roots.	, \	cm, Hängend: 1,27 cm, Tabstop	
126.	Which of the following is/are		(SECTION-B)		1,27 cm, Links + 3,1 cm, Links +	+ 5,08
	phanerogame(s) without ovary?	136.	Intercalary meristems	۱ / <i>ا</i>	cm, Links + 6,86 cm, Links	
	(A) Ephedra		(A) Are found in between mature tissues.		Formatiert: Block, Einzug: Links cm, Hängend: 1,27 cm, Tabstop	
ı	(B) Zea mays		(B) Are lateral meristem.	1	1,27 cm, Links + 3,1 cm, Links +	
	(C) Ginkgo (D) Both (A) and (C)		(C) Are primary meristem. (D) More than one option is correct.	/ / /	cm, Links + 6,86 cm, Links	·
ĺ	(D) Both (A) and (C)		(D) More than one option is correct.	.\\	Formatiert: Block, Einzug: Links	s: 0
127.	Which of the following structure is not	137.	Ground tissue includes	///	cm, Hängend: 1,27 cm, Tabstop	
	present in Cycas?		(A) Cortex and pericycle	1 / 1	1,27 cm, Links + 3,1 cm, Links + cm, Links + 6,86 cm, Links	+ 5,08
	(A) Unbranched stem (B) Coralloid roots		(B) Medullary rays.	1	Formatiert: Block, Einzug: Links	cı 0
	(C) Pinnate leaves (D) Female cone		(C) Pith.	h	cm, Hängend: 1,27 cm, Tabstop	
400	5.11		(D) All of these	1	1,27 cm, Links + 3,1 cm, Links +	
128.	Both male and female gametophytes do	420	\Alleian at the efall evidence is used a mant of atolac	11 11	cm, Links + 6,86 cm, Links	
	not show free living existence in (A) Phanerogams	138.	Which of the following is not a part of stele? (A) Endodermis (B) Pith	$\parallel \parallel \parallel \parallel$	Formatiert: Block, Einzug: Links	
	(B) Gymnosperms only		(C) Pericycle (D) Vascular tissue	$\parallel \parallel \parallel \parallel \parallel$	cm, Hängend: 1,27 cm, Tabstop 1,27 cm, Links + 3,1 cm, Links +	
1	(C) Pteridophytes		(2) (2) (2)	h	cm, Links + 6,86 cm, Links	1 3,00
	(D) Bryophytes	139.	Artificial system of classification given by	1 111 1	Formatiert: Block, Einzug: Links	s: 0
			Carolus Linnaeus was mainly based on	h	cm, Hängend: 1,27 cm, Tabstop	ps:
129.	Sunflower is included in angiosperms		(A) Habit and habitat		1,27 cm, Links + 3,1 cm, Links +	+ 5,08
I	because		(B) Gross morphology	IIIII	cm, Links + 6,86 cm, Links	
	(A) It is heterosporous (B) Seeds are protected by seed coat		(C) Vegetative characters (D) Androecium character	111111	Formatiert: Block, Einzug: Links cm, Hängend: 1,27 cm, Tabstop	
	(C) Seeds are enclosed in fruits		(B) / Widiocoldin orial dotoi	4]]]]]]	1,27 cm, Links + 3,1 cm, Links +	
	(D) All except	140.	Phylogenetic system of classification was		cm, Links + 6,86 cm, Links	
			given by all except		Formatiert: Block, Einzug: Links	
130.	Vascular bundles of leaf are similar to		(A) Engler and Prantl (B) Aristotle	$\parallel \parallel \parallel \parallel \parallel$	cm, Hängend: 1,27 cm, Tabstop 1,27 cm, Links + 3,1 cm, Links +	
	(A) Vascular bundles of dicot root. (B) Vascular bundles of monocot root.		(C) Takhtajan (D) Eichler	.	cm, Links + 6,86 cm, Links	. 5,00
	(C) Vascular bundles of dicot stem.	141.	Kelps are		Formatiert: Block, Einzug: Links	s: 0
	(D) Vascular bundles of monocot stem.		(A) Massive brown algae		cm, Hängend: 1,27 cm, Tabstop	
			(B) Amphibians of plant kingdom	11111	1,27 cm, Links + 3,1 cm, Links + cm, Links + 6,86 cm, Links	+ 5,08
131.	The vascular bundles in Cucurbita stem are		(C) Simple thalloid filamentous brown algae	11111	Formatiert: Block, Einzug: Links	c. 0
	(A) Radial (B) Bi-collateral		(D) Red algae with massive plant body	1111	cm, Hängend: 1,27 cm, Tabstop	
l	(C) Collateral (D) Concentric	142.	Which of the following organisms shows-	. \\\\	1,27 cm, Links + 3,1 cm, Links +	
132.	Exarch type of arrangement of primary	172.	anisogamy?	1111	cm, Links + 6,86 cm, Links	
	xylem is seen in		(A) Ulothrix (B) Spirogyra	1 111	Formatiert: Block, Einzug: Links	
	(A) Roots (B) Dicot stem		(C) Udorina (D) Fucus	1 11	cm, Hängend: 1,27 cm, Tabstop 1,27 cm, Links + 3,1 cm, Links +	
	(C) Isobilateral leaf (D) Monocot stem			۱ <i>۱</i> ۱ ۱۱	cm, Links + 6,86 cm, Links	•
133.	Select the correct statement with respect	143.	Select incorrectly matched pair	\\ \\ \\	Formatiert: Block, Einzug: Links	
	to phloem fibres.		(A) Iodine source - Laminaria (B) Agar - Gelidium and Gracilaria	1 1 1	cm, Hängend: 1,27 cm, Tabstop 1,27 cm, Links + 3,1 cm, Links +	
	A. Generally absent in primary phloem.		(C) Carrageen - Fucus	,	cm, Links + 6,86 cm, Links	F 3,00
	B. Much elongated unbranched with		(D) Space travelers food supplement -	\ \\ \\ \	Formatiert	
l)	needle-like apices.		Chlorella	1	Formatiert	(
	C. Sclerenchymatous in nature. D. Becomes dead at maturity.	444	Agar and of the commercial products	\		<u> </u>
	(A) (A) and (B) only	144.	Agar, one of the commercial products A. Is obtained from cell wall of certain red	1	Formatiert	(
	(B) (B) and (C) only		algae	111	Formatiert	(
	(C) (B) and (D) only		B. Is used to grow microbes	1//	Formatiert	(
	(D) (A), (B), (C), and (D)		C. Is used in preparation of ice cream and		Formatiert	(
404	District the formation of mains		jellies Choose the correct option:	//	Formatiert	(
134.	During the formation of primary plant body, specific regions of meristem produce		(A) Only (B) is correct	/ /	Formatiert	(
	(A) Epidermal tissue (B) Ground tissue		(B) Only (A) and (C) are correct (C) Only (B) and (C) are correct		Formatiert	
	(C) Vascular tissue (D) All of these		(D) All (A), (B) and (C) are correct			(
	· ,				Formatiert	(
			PG #11			

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145.	Which is not true about phellogen?		*Options were not academically		Formatiert: Schriftart: (Standard)
	(A) It is extra stelar cambium.		correct, so rectified.*		Formatiert: Schriftart: (Standard)
	(B) It is formed by redifferentiation of		(A) (b), (c), (d) and (e) Only		
	cortical cells in dicot roots.		(B) (a), (b), (c), (d) and (e)	///	Formatiert: Schriftart: (Standard)
	(C) It is made up of narrow, thin-walled		(C) (a), (c), (d) and (e) Only		Formatiert: Einzug: Links: 0 cm,
	nearly rectangular cells.		(D) (a), (b) and (d) Only	/ /	Hängend: 1,27 cm, Tabstopps: 1,27
	(D) It is also known as cork cambium.				cm, Links + 3,1 cm, Links + 5,08 cm,
			ZOOLOGY (SECTION-A)		Links + 6,86 cm, Links
146.	Secondary growth	151.		/	Formatiert: Schriftart: Arial, Nicht
1	(A) Helps in increase in girth or diameter		(A) Biconvex and nucleated	_	Formatiert: Schriftart: Arial, Nicht
	of plant organ	-	(B) Biconcave and nucleated		
	(B) Occurs due to the activity of		(C) Biconvex and enucleated		Formatiert: Schriftart: Arial, Nicht
	procambium.		(D) Biconcave and enucleated	-	Formatiert: Schriftart: Arial, Nicht
	Select the correct option.		(D) Dicorrect of an a chacleated	1	Fett Formatiert: Block, Einzug: Links: 0
	(A) Only (A) is correct.	152.	Identify the wrong statement:	//	cm, Hängend: 1,27 cm, Tabstopps:
	(B) Only (B) is correct.		(A) Skull of frog is dicondylic.		1,27 cm, Links + 3,1 cm, Links + 5,08
	(C) Both (A) and (B) are correct.		(B) Typical vertebrae of frog (2nd-7th) are		cm, Links + 6,86 cm, Links
	(D) Both (A) and (B) are incorrect.		procoelous.	//	Formatiert: Schriftart: Arial, Nicht
	(b) Both (A) and (b) are mostreet.		(C) Frog has 12 pairs of cranial nerves.	\	\ -
147.	The dorsiventral leaf of plant has		(D) Skin of frog remains moist due to		Formatiert: Block, Einzug: Links: 0
147.	(i) Conspicuous cuticle present on both		mucus glands.		cm, Hängend: 1,27 cm, Tabstopps: 1,27 cm, Links + 3,1 cm, Links + 5,08
	epidermises.		•		cm, Links + 6,86 cm, Links
	(ii) Palisade tissue towards abaxial	<u>153.</u>			
	` '		(A) is ureotelic		Formatiert: Block, Einzug: Links: 0
			(B <u>) has mesonephric kidney</u>		cm, Hängend: 1,27 cm, Tabstopps: 1,27 cm, Links + 3,1 cm, Links + 5,08
	towards adaxial epidermis.		(C) has uriniferous tubules in kidney	\ \	cm, Links + 6,86 cm, Links
	(iii) Bulliform cells in adaxial epidermis.		(D) has all of the above characters	\ '	
	(iv) Vascular bundles surrounded by a	4=4	→	\ \	Formatiert: Block, Einzug: Links: 0
	layer of thick- walled bundle sheath cells.	<u>154.</u>		\ \	cm, Hängend: 1,27 cm, Tabstopps: 1,27 cm, Links + 3,1 cm, Links + 5,08
	Correct statements are		(A) Long since it is herbivore	\ \	cm, Links + 6,86 cm, Links
	(A) Only (ii) (B) (i) and (iv)		(B) Short because it is carnivore	\ '	
	(C) (ii), (iii), and (iv) (D) (i), (iii), and (iv).		(C) Incomplete since anus is absent	\ \	Formatiert: Block, Einzug: Links: 0 cm, Hängend: 1,27 cm, Tabstopps:
440	Miliah of the fellowing characters is/one		(D) Short because it is herbivore	\ \	1,27 cm, Links + 3,1 cm, Links + 5,08
148.	Which of the following characters is/are	155.	Function of stomodaeal valve in the gut of		cm, Links + 6,86 cm, Links
	related dorsiventral leaf?	100.	cockroach is to prevent entry of food from	1	Formatiert: Block, Einzug: Links: 0
	(i) Stomata are present onadaxial		(A) Hindgut to midgut	1	cm, Hängend: 1,27 cm, Tabstopps:
	epidermis. Abaxial epidermis to		(B) Midgut to foregut		1,27 cm, Links + 3,1 cm, Links + 5,08
	(ii) Mesophyll is differentiated into palisade		(C) Oesophagus to crop	\	cm, Links + 6,86 cm, Links
	tissue and spongy parenchyma.		(D) Rectum to colon		Formatiert: Block, Einzug: Links: 0
	(iii) Certain adaxial epidermis cells along		(B) 1100tan 10 001011	III	cm, Hängend: 1,27 cm, Tabstopps:
	the vein modify themselves into large	156.	The prothoracic gland in cockroach produces	$\Pi\Pi$	1,27 cm, Links + 3,1 cm, Links + 5,08
	empty colourless cells.		(A) Juvenile hormone	11 1	cm, Links + 6,86 cm, Links
	(A) Only (iii) (B) (i) and (ii)		(B) Ecdysone	III	Formatiert: Block, Einzug: Links: 0
-	(C) Only (ii) (D) (i), (ii), and (iii)		(C) Moulting hormone	, II I	cm, Hängend: 1,27 cm, Tabstopps:
440	The community is also be affected to the contract of the contr		(D) Both (B) and (C)		1,27 cm, Links + 3,1 cm, Links + 5,08
<u>149.</u>	The ovary is half inferior in:		()()		cm, Links + 6,86 cm, Links
	(A) Plum (B) Brinjal	157.	Read the following statements:	III	Formatiert: Block, Einzug: Links: 0
	(C) Mustard (D) Sunflower		(i) Head is triangular in shape and lies		cm, Hängend: 1,27 cm, Tabstopps:
150.	Read the following statements about the		anteriorly at right angles to the longitudinal		1,27 cm, Links + 3,1 cm, Links + 5,08 cm, Links + 6,86 cm, Links
100.	vascular bundles:		axis.		
	(a) In roots, xylem and phloem in a		(ii) Head is formed by fusion of nine		Formatiert: Block, Einzug: Links: 0
-	vascular bundle are arranged in an		segments and has restricted mobility.		cm, Hängend: 1,27 cm, Tabstopps: 1,27 cm, Links + 3,1 cm, Links + 5,08
	alternate manner along the different radii.		(iii) The entire midgut of cockroach is lined	11111	cm, Links + 6,86 cm, Links
	(b) Conjoint closed vascular bundles do		by cuticle.		
-	not possess cambium.		(iv) Antennae of cockroach has sensory	11111	Formatiert: Block, Einzug: Links: 0 cm, Hängend: 1,27 cm, Tabstopps:
	(c) In open vascular bundles, cambium is		receptors for monitoring the environment.		1,27 cm, Links + 3,1 cm, Links + 5,08
1	present in between xylem and phloem.		(v) Mushroom glands are present in 4th-		cm, Links + 6,86 cm, Links
l	(d) The vascular bundles of dicotyledonous		6th abdominal segment in male		Formatiert
	stem possess endarch protoxylem.		cockroach.		Formations
l	(e) In monocotyledonous root, usually there		Which of the above statements are		<u> </u>
	are more than six xylem bundles present.		correct?		Formatiert
	Choose the correct answer from the		(A) (i) and (iii) (B) (ii) and (v)		Formatiert
	options given below:		(C) (iv) and (v) (D) (i) and (iv)		Formatiert: Schriftart: (Standard)
		- 1	DO #48		Arial
			PG #12		
		_			

168. The type of metamorphosis observed in cockroach is (A) Hemimetabolous (B) Paurometabolous (C) Holometabolous (D) Hypermetabolus (D) Hypermetabolus (E) Holometabolous (D) Hypermetabolus (D) Hypermetabolus (E) The earthworm dies due to if its skin tus dry. (A) Suffocation (B) Starvation (C) Toxicity (D) All of the above (B) Coccon formation (C) Locomotion (C) Locomotion (C) Locomotion (D) Copulation (A) Closed blood vessels with definite walls (C) Closed blood vessels with definite walls (D) Open blood vessels with definite walls (D) Depon blood vessels without walls (D) Open blood vesse	tebrates. Y incorrect
(A) Hemimetabolous (B) Paurometabolous (C) Holometabolous (D) Hypermetabolus (D) Hypermetabolus (E) Holometabolous (D) Hypermetabolus (D) Hypermetabolus (E) The earthworm dies due to if its skin tus dry. (A) Suffocation (B) Starvation (C) Toxicity (D) All of the above 160. Clitellum of earthworm helps in (A) Secreting mucus (B) Cocoon formation (C) Locomotion (D) Copulation (D) Copulation (D) Copulation (E) Closed blood vessels with definite walls (B) Open blood vessels with definite walls (C) Closed blood vessels without walls (D) Open blood vessel without walls (D) Open blood vessel without walls (D) The body wall of earthworm is covered externally by a thin, non-cellular cuticle, below which lies epidermis. (ii) The pidermis of earthworm is made up of a single layer of columnar epithelial cells which contain secretory gland cells. (iii) The setae are present in all segments of the body of earthworm. (A) Liver (C) Heart (D) Birlin (C) Hood the following in an option w.r.t. myelinated neuron? (A) Neurllemma is continuous. (B) Myelin is continuous. (B) Myelin is continuous. (C) Nodes of Ranvier are present in so (A) Myelinated acxons (B) Cytor (C) Dendrites (D) Edentify the wrong statement: (A) The conduction velocity of meuron is faster than the non-meuron. (B) The cell body of neuron is also call (C) Nissl bodies are present in all option. (B) Crocomotion (C) Locomotion (C) Locomotion (B) Cytor (C) Dendrites (D) Both((C) Pendrites (C) Pendrites (D) Both((C) Pendrites (D) Myelin ated acxons (B) Cytor (C) Dendrites (D) All ofties are present in so (E) All options is continuous. (B) Myelin is continuous. (C) Nodes of Ranvier are present in so (E) Cytor (C) Dendrites (D) Myelin ated acxons (B) Cytor (C) Dendrites (D) Neuroransmitters are cher float across the synapse to que to the dendrites or cell bodies neurons. (B) Crocomotion (C) Locomotion (C) Locomotion (D) Neuroransmitters are cher float across the synapse to que to the den	incorrect
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(A) Neurilemma is continuous.	•
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(C) Closed blood vessels without walls (D) Open blood vessel without walls 162. Consider the following statements: (i) The body wall of earthworm is covered externally by a thin, non-cellular cuticle, below which lies epidermis. (ii) The epidermis of earthworm is made up of a single layer of columnar epithelial cells which contain secretory gland cells. (iii) The setae are present in all segments of the body of earthworm.	
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162. Consider the following statements: (i) The body wall of earthworm is covered externally by a thin, non-cellular cuticle, below which lies epidermis. (ii) The epidermis of earthworm is made up of a single layer of columnar epithelial cells which contain secretory gland cells. (iii) The setae are present in all segments of the body of earthworm. (A) Epimysium (B) Endo (C) Perimysium (D) Endo (C) Perimysium	
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(ii) The epidermis of earthworm is made up of a single layer of columnar epithelial cells which contain secretory gland cells. (ii) The setae are present in all segments of the body of earthworm. correct option: (i) Smooth muscle fibers are ur and involuntary. (ii) Due to presence of very junctions, the cardiac muscles	
up of a single layer of columnar epithelial cells which contain secretory gland cells. (ii) Smooth muscle fibers are un and involuntary. (iii) Due to presence of very junctions, the cardiac muscles of the body of earthworm. together as a unit.	ose the
cells which contain secretory gland cells. (ii) Due to presence of very (iii) The setae are present in all segments of the body of earthworm. and involuntary. (ii) Due to presence of very junctions, the cardiac muscles	
secretory gland cells. (iii) Due to presence of very (iii) The setae are present in all segments of the body of earthworm. (iii) Due to presence of very junctions, the cardiac muscles together as a unit.	nucleate
(iii) The setae are present in all segments of the body of earthworm. junctions, the cardiac muscles together as a unit.	
of the body of earthworm. together as a unit.	
	contract
(iv) Septal nephridia are present in first 14 (iii) Skeletal muscles fibers are	<u>syncytial</u>
segments in Pheretima. and appear striated.	
Which of the above statements are (iv) Smooth muscle fibers have	<u>striations</u>
correct? and appear fusiform.	/
(A) (i) and (ii) (B) (ii) and (iii) (i) (ii) (iii) (iv)	√ /
(C) (iii) and (iv) (D) (i) and (iv) (A) T T F F	•
(B) T F T F	✓
163. The flow of blood in dorsal blood vessel of (C) F T F T	
earthworm is (D) T T T F	4
(A) Backwards	
(D) Forwards	•
(C) Forwards in enterior helf only	4
(D) Name of the context option.	d choose
Statements 1. The newborn mai	<u> </u>
164. Which of the following is an incorrect not shiver in spite of lower terms outside the methor's words	nmals do
Outside the mother's world.	nmals do
statement w.rt. intestine in earthworm? Statement II: Newborns have	nmals do nperature
(A) It extends from 15th till last segment. that contains many mitochone	nmals do nperature prown fat
(B) It has calciferous glands to neutralize uncoupling proteins and have	nmals do nperature prown fat Iria with
humic acid. capacity of generating heat.	nmals do nperature prown fat Iria with
(C) It has typhlosole to increase absorptive (A) Both statements are correct	nmals do nperature prown fat Iria with
area. (B) Both statements are incorrect	nmals do nperature prown fat Iria with
(D) Intestinal caecae attached to intestine (C) Only statement I is correct	nmals do nperature prown fat Iria with
secrete digestive juices. (D) Only statement II is correct	nmals do nperature prown fat Iria with
	nmals do nperature prown fat Iria with

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<u>172.</u>	Which of the following is correct w.r.t. difference
	between RBCs of humans and frog?
	(A) Frog's RBCs are non-nucleated.
	(B) Human RBCs are biconvex, while
	frog's RBCs are biconcave. (C) Human RBCs are biconcave, while
	frog's RBCs are biconvex.
	(D) Human RBCs are nucleated.
<u>173.</u>	In a compact bone, the concentric layers
	of matrix are called
	(A) Lacunae
	(B) <u>Lamellae</u>
	_(C) <u>Haversian canal</u> (D) <u>Volkmann's canal</u>
	(D) VOIKITIATITI'S CATIAL
<u>174.</u>	A large multinucleated cell involved in
	resorption of cartilage is called
	(A) Chondroclast (B) Chondroblast
	(C) Osteoblast (D) Chondrocyte
175.	Mark the wrong statement:
	(A) The intercellular material of cartilage is
	solid, pliable and resists compression.
	(B) Chondrocytes are enclosed in small
	cavities within the matrix secreted by them.
	(C) Cartilage is the site of production of
	blood cells.
	(D) Most of the cartilage in vertebrate
	embryos are replaced by bone in adults.
176.	Red bone marrow is found mainly in
	(A) Marrow cavity
	(B) Spongy bone
	(C) Ends of long bones
	(D) Both (B) and (C)
177.	Ependymal cells have ciliated simple
111.	columnar shape and are found in the lining of
	(A) CSF-filled ventricles of brain
	(B) Central canal of spinal cord
	(C) Both (A) and (B)
	(D) Auditory canal
178.	The well of urinery bladder and urater is
170.	The wall of urinary bladder and ureter is lined by epithelium.
	(A) Simple columnar
	(B) Germinal
	(C) Transitional
	(D) Stratified squamous
470	
<u>179.</u>	Choose the correct location where the given epithelium is not found
	given epithelium is not lound
	* T * * (1)
	2011
	100000000000000000000000000000000000000
	() () () () ()
	(A) Vagina
	(B) Skin
	(C) Buccal cavity
	(D <u>) Bowman's capsule</u>

180.	Consider the following statements:
	(i) Goblet cells are the unicellular glands.
	(ii) The products of exocrine glands are
	hormones and
	are secreted directly into the fluid bathing
	the gland.
	(iii) Some of the squamous cells get
	specialized for secretion and are called
	glandular epithelium.
	(iv) Compound epithelium is made of more
	than one layer of cells and thus has a
	limited role in secretion and absorption.
	Which of the above statements are
	correct?
	(A) (i) and (ii) (B) (ii) and (iii)
	(C) (iii) and (iv) (D) (i) and (iv)
181.	The cell junction specialized for rapid
	transfer of ions and molecules is
	(A) Adhering junction
_	(B) Hemidesmosome
	(C) Gap junction
	(D) Tight junction
182.	Identify the diagram of the connective
	tissue given below and choose the correct
	option:
	0 1 - 1911

(A) Dense regular connective tissue (B) Dense irregular connective tissue (C) Areolar tissue (D) Specialized connective tissue

During muscle contraction (A) Mechanical energy is changed into chemical energy (B) Chemical energy is changed into mechanical energy (C) Potential energy is changed into

chemical energy (D) Mechanical energy is changed into potential energy

Which of the following is correct w.r.t. nodes of Ranvier?

(A) They are covered with myelin.

(B) Axolemma is discontinuous.

(C) Myelin sheath is discontinuous.

(D) Both neurilemma and myelin sheath are discontinuous.

A dense layer of connective tissue that surrounds the entire nerve, made of number of fasciculi, is called (A) Epineurium

(C) Perineurium

(B) Endoneurium

(D) Epimysium

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	(SECTION-B)	<u>195.</u>	Asse
186 <u>.</u>	Identify the correct option w.r.t. unipolar		impo
	neuron:		Reas
	(A) Cell body with many dendrites		comr
	(B) Cell body with only an axon		contr
	(C) Cell body with no axon		(A)_ <u>l</u> are
	(D) Cell body with a dendrite and an axon		expla
107	The earthworm dies due to if its		(B) I
107.	skin turns dry.	-	true
	(A) Suffocation		expla
	(B) Starvation		(C) If
	(C) Toxicity		false.
	(D) All of the above		(D <u>)_l</u>
			false.
<u>188.</u>		400	
	cockroach and that of rabbits is that	<u>196.</u>	Asse
	(A) Both are lined with ciliated epithelium		the p
	(B) Both have non-collapsible wall	-	Reas
	(C) Both have cartilaginous rings in wall		giver (A) I
	(D) Both are paired and branched		are
189.	Which of the following is correct for		expla
103.	epithelial tissue?		(B) I
	(A) It is present only as inner lining		true
	(B) It is present only as outer lining		expla
	(C) Contains very less intracellular matrix		(C <u>)</u>
	(D) All of these		false.
			_(D)_l
<u>190.</u>	Which of the following sites contain		<u>false</u>
	squamous epithelium as its living?	197.	Whic
	(A) Blood vessel	137.	the
-	(B) Air sac in lungs (C) Nasal cavity		colun
	(D) Both (A) and (B)		(A) C
	(B) Both (A) Cana (B)		(B) A
191.	In columnar epithelium, where is nucleus		(C) S
	located?		(D) Ir
	(A) At the base		
	(B) In the middle	<u>198.</u>	Whic
	(C) At the top		tissue
	(D) No nucleus is present	-	(A) A (C) N
192.	Which of the following is unicellular		<u>(U) IX</u>
132.	glandular epithelium?	199.	Tegn
	(A) Salivary gland		(A) N
-	(B) Islets of langer han's		<u>(B) N</u>
	(C) Goblet cells		(C) P
	(D) All of these		(D) P
400	AAU: 1	200	14-4-
<u>193.</u>	Which of the following functions of	<u>200.</u>	Matc ist-l
	compound epithelium is minimal? (A) Protection	(a	
	(B) Secretion	(b) Goble
	(C) Absorption	(0	
	(D) Both (B) and (C)		l) Adipo
	12) <u>2011 (</u> 2) <u>2011 (</u> 2)		Choc
<u> 194.</u>	What kind of tissue is goblet cells?		optio
	(A) Epithelial tissue	_	(A) (a
	(B) Connective tissue		(B) (a
	(C) Neural tissue		(C) (a
	(D) All of these		<u>(D) (a</u>

<u> 195.</u>	Assertion: Intercalated discs are
	important regions of cardiac muscle cells.
	Reason: Intercalated discs function as
	communication junction for muscle
	contraction waves.
	(A) If both the assertion and the reason
	are true and the reason is a correct
	explanation of the assertion.
	(B) If both the assertion and reason are
	true but the reason is not a correct
	explanation of the assertion.
	(C) If the assertion is true but the reason is
	false.
	(D) If both the assertion and reason are
	false.
400	A 41 A1 11 11 11 11 11 11 11 11 11 11 11 11
<u> 196.</u>	
	the property of excitability.
	Reason: Neurons can get excited by a
	given stimulus.
	(A) If both the assertion and the reason
	are true and the reason is a correct.
	explanation of the assertion.
	(B) If both the assertion and reason are
	true but the reason is not a correct
	explanation of the assertion.
	(C) If the assertion is true but the reason is
	false.
	(D) If both the assertion and reason are.
	taise.
	false.
197	
197 <u>.</u>	Which of the following is present between-
197 <u>.</u>	Which of the following is present between the adjacent bones of the vertebral
197 <u>.</u>	Which of the following is present between- the adjacent bones of the vertebral column?
197 <u>.</u>	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage
197 <u>.</u>	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage (B) Aerolar tissue
197 <u>.</u>	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage (B) Aerolar tissue (C) Smooth muscle
197 <u>.</u>	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage (B) Aerolar tissue
	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage (B) Aerolar tissue (C) Smooth muscle (D) Intercalated discs
	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage (B) Aerolar tissue (C) Smooth muscle (D) Intercalated discs Which of the following is not a connective
	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage (B) Aerolar tissue (C) Smooth muscle (D) Intercalated discs Which of the following is not a connective tissue?
	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage (B) Aerolar tissue (C) Smooth muscle (D) Intercalated discs Which of the following is not a connective tissue? (A) Adipose tissue (B) Cartilage
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198.	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage (B) Aerolar tissue (C) Smooth muscle (D) Intercalated discs Which of the following is not a connective tissue? (A) Adipose tissue (B) Cartilage (C) Neuroglia (D) Blood
198.	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage (B) Aerolar tissue (C) Smooth muscle (D) Intercalated discs Which of the following is not a connective tissue? (A) Adipose tissue (B) Cartilage (C) Neuroglia (D) Blood Tegmina in cockroach, arises from:
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198. 199. 200.	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage (B) Aerolar tissue (C) Smooth muscle (D) Intercalated discs Which of the following is not a connective tissue? (A) Adipose tissue (B) Cartilage (C) Neuroglia (D) Blood Tegmina in cockroach, arises from: (A) Mesothorax (B) Metathorax (C) Prothorax and Mesothorax
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198.	Which of the following is present between- the adjacent bones of the vertebral column? (A) Cartilage (B) Aerolar tissue (C) Smooth muscle (D) Intercalated discs Which of the following is not a connective tissue? (A) Adipose tissue (B) Cartilage (C) Neuroglia (D) Blood Tegmina in cockroach, arises from: (A) Mesothorax (B) Metathorax (C) Prothorax and Mesothorax (D) Prothorax Match list - I with the list - II. List-I List-II. (a) Bronchioles (i) Dense Regular Connective Tissue (b) Goblet Cell (ii) Loose Connective Tissue (c) Goblet Cell (iii) Glandular Tissue (d) Adipose Tissue (iv) Ciliated Epithelium Choose the correct answer from the- options given below: (A) (a) - (i), (b) - (ii), (c) - (iii), (d) - (iv)

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