LESSON 1 - LAWS OF MOTION

- 1) Inertia of a body depends on
- a) weight of the object
- b) acceleration due to gravity of the planet
- c) mass of the object d) Both a & b
- 2) Impulse is equals to
- a) rate of change of momentum
- b) rate of force and time
- c) change of momentum
- d) rate of change of mass
- 3) Newton's III law is applicable
- a) for a body is at rest b) for a body in motion
- c) both a & b
- d) only for bodies with equal masses
- 4) Plotting a graph for momentum on the X-axis and time on Y-axis. slope of momentum-time graph gives
- a) Impulsive force
- b) Acceleration
- c) Force
- d) Rate of force
- 5) In which of the following sport the turning of effect of force used
- a) swimming b) tennis c) cycling d) hockey
- 6) The unit of 'g' is m s-2. It can be also expressed as
- a) cm s⁻¹ b) N kg⁻¹ c) N m² kg⁻¹ d) cm² s⁻²
- 7) One kilogram force equals to
- a) 9.8 dyne

- b) $9.8 \times 10^4 \text{ N}$
- c) 98×10^4 dyne
- d) 980 dyne
- 8) The mass of a body is measured on planet Earth as M kg. When it is taken to a planet of radius half that of the Earth then its value will be__
- a) 4 M b) 2M c) M/4 d) M
- 9) If the Earth shrinks to 50% of its real radius its mass remaining the same, the weight of a body on the Earth will
- a) decrease by 50%
- b) increase by 50%
- c) decrease by 25%
- d) increase by 300%
- 10) To project the rockets which of the following principle(s) is /(are) required?
- a) Newton's third law of motion
- b) Newton's law of gravitation
- c) law of conservation of linear momentum
- d) both a and c

LESSON 2 - OPTICS

- 1. The refractive index of four substances A, B, C and D are 1.31, 1.43, 1.33, 2.4 respectively. The speed of light is maximum in
- c) C a) A b) B d) D
- 2. Where should an object be placed so that a real and inverted image of same size is obtained by a convex lens
- a) f b) 2f c) infinity d) between f and 2f
- 3. A small bulb is placed at the principal focus of a convex lens. When the bulb is switched on, the lens will produce
- a) a convergent beam of light
- b) a divergent beam of light
- c) a parallel beam of light
- d) a coloured beam of light
- 4. Magnification of a convex lens is
- a) Positive
- b) negative
- c) either positive or negative
- d) zero
- 5. A convex lens forms a real, diminished point sized image at focus. Then the position of the object is at
- a) focus
- b) infinity
- c) at 2f
- d) between f and 2f
- 6. Power of a lens is –4D, then its focal length is
- a) 4m b) -40m
- c) -0.25 m d) -2.5 m
- 7. In a myopic eye, the image of the object is formed
- a) behind the retina
- b) on the retina
- c) in front of the retina
- d) on the blind spot
- 8. The eye defect 'presbyopia' can be corrected by
- a) convex lens
- b) concave lens
- c) convex mirror
- d) Bi focal lenses
- 9. Which of the following lens would you prefer to use while reading small letters found in a dictionary?
- a) A convex lens of focal length 5 cm
- b) A concave lens of focal length 5 cm
- c) A convex lens of focal length 10 cm
- d) A concave lens of focal length 10 cm
- 10. If VB, VG, VR be the velocity of blue, green and red light respectively in a glass prism, then which of the following statement gives the correct relation?
- a) VB = VG = VR
- b) VB > VG > VR
- c) VB < VG < VR
- d) VB < VG > VR

LESSON 3 THERMAL PHYSICS

- 1. The value of universal gas constant
- a) 3.81 mol-1 K-1
- b) 8.03 mol-1 K-1
- c) 1.38 mol-1 K-1
- d) 8.31 mol-1 K-1
- 2. If a substance is heated or cooled, the change in mass of that substance is
- a) positive
- b) negative
- c) zero
- d) none of the above
- 3. If a substance is heated or cooled, the linear expansion occurs along the axis of
- a) X or -X
- b) Y or -Y
- c) both (a) and (b)
- d) (a) or (b)
- 4. Temperature is the average _____ of the molecules of a substance
- a) difference in K.E and P.E
- b) sum of P.E and K.E
- c) difference in T.E and P.E
- d) difference in K.E and T.E
- 5. In the Given diagram, the possible direction of heat energy transformation is



a)A
$$\leftarrow$$
 B, A \leftarrow C,B \leftarrow C
b)A \longrightarrow B, A \longrightarrow C,B \longrightarrow C
c)A \longrightarrow B, A \leftarrow C,B \longrightarrow C

$d)A \leftarrow B, A \rightarrow C, B \leftarrow C$

UNIT 4 ELECTRICITY

I. Choose the best answer

- 1. Which of the following is correct?
- a) Rate of change of charge is electrical power.
- b) Rate of change of charge is current.
- c) Rate of change of energy is current.
- d) Rate of change of current is charge.
- 2. SI unit of resistance is
- a) mho b) joule c) ohm d) ohm meter
- 3. In a simple circuit, why does the bulb glow when you close the switch?/
- a) The switch produces electricity.
- b) Closing the switch completes the circuit.
- c) Closing the switch breaks the circuit.
- d) The bulb is getting charged.
- 4. Kilowatt hour is the unit of
- a) resistivity b) conductivity
- c) electrical energy
- d) electrical power

UNIT 5 ACOUSTICS

- 1. When a sound wave travels through air, the air particles
- a) vibrate along the direction of the wave motion
- b) vibrate but not in any fixed direction
- c) vibrate perpendicular to the direction of the wave motion
- d) do not vibrate
- 2. Velocity of sound in a gaseous medium is 330 m s⁻¹. If the pressure is increased by 4 times without causing a change in the temperature, the velocity of sound in the gas
- a) 330 m s^{-1}
- b) 660 m s¹
- c) 156 m s^{-1}
- d) 990 m s⁻¹
- 3. The frequency, which is audible to the human ear is
- a) 50 kHz
- b) 20 kHz
- c) 15000 kHz
- d) 10000 kHz
- 4. The velocity of sound in air at a particular temperature is 330 m s⁻¹. What will be its value when temperature is doubled and the pressure is halved?
- a) 330 m s-1
- b) 165 m s-1
- c) $330 \times \sqrt{2} \text{ m s} 1$
- d) $320 / \sqrt{2}$ m s-1
- 5. If a sound wave travels with a frequency of 1.25×104 Hz at 344 m s–1, the wavelength will be
- a) 27.52 m
- b) 275.2 m
- c) 0.02752 m
- d) 2.752 m
- 6. The sound waves are reflected from an obstacle into the same medium from which they were incident. Which of the following changes?
- a) speed
- b) frequency
- c) wavelength
- d) none of these
- 7. Velocity of sound in the atmosphere of a planet is 500 m
- s-1. The minimum distance between the sources of sound and the obstacle to hear the echo, should be
- a) 17 m

- b) 20 m c) 25 m d) 50 m

UNIT 06 NUCLEAR PHYSICS

- 1. Man-made radioactivity is also known as
- a. Induced radioactivity
- b. Spontaneous radioactivity
- c. Artificial radioactivity
- d. a & c
- 2. Unit of radioactivity is ___
- a. roentgen
- b. curie
- c. becquerel
- d. all the above

- 3. Artificial radioactivity was discovered by
- a. Bequerel
- b. Irene Curie
- c. Roentgen
- d. Neils Bohr
- 4. In which of the following, no change in mass number of the daughter nuclei takes place
- i) α decay
- ii) β decay
- iii) γ decay
- iv) neutron decay
- a. (i) is correct
- b (ii) and (iii) are correct
- c (i) & (iv) are correct
- d (ii) & (iv) are correct
- _____ isotope is used for the treatment of cancer. a. Radio Iodine
 - b. Radio Cobalt
- c. Radio Carbon
- d. Radio Nickel
- 6. Gamma radiations are dangerous because a. it affects eyes & bones
 - b. it affects tissues
- c. it produces genetic disorder
- d. it produces enormous amount of heat
- 7. ___ aprons are used to protect us from gamma radiations
- a. Lead oxide
- b. Iron
- c. Lead
- d. Aluminium
- 8. Which of the following statements is/are correct?
- i. α particles are photons
- ii. Penetrating power of γ radiation is very low
- iii. Ionization power is maximum for α rays iv. Penetrating power of γ radiation is very high
- a. (i) & (ii) are correct
- b. (ii) & (iii) are correct
- c. (iv) only correct
- d. (iii) & (iv) are correct
- 9. Proton Proton chain reaction is an example of
- a. Nuclear fission
- b. α decay
- c. Nuclear fusion
- d. β decay
- 10. In the nuclear reaction X¹² α decay the value of A & Z.
 - a. 8, 6
- c. 4, 8
- d. cannot be determined with the given data
- 11. Kamini reactor is located at
- a. Kalpakkam
- b. Koodankulam
- c. Mumbai
- d. Rajasthan

- 12. Which of the following is/are correct?
- i. Chain reaction takes place in a nuclear reactor and an atomic bomb.
- ii. The chain reaction in a nuclear reactor is controlled
- iii. The chain reaction in a nuclear reactor is not controlled
- iv. No chain reaction takes place in an atom bomb
- a. (i) only correct
- b. (i) & (ii) are correct
- c. (iv) only correct
- d. (iii) & (iv) are correct

UNIT 07 ATOMS AND MOLECULES

- 1. Which of the following has the smallest mass?
- a. 6.023×1023 atoms of He
- b. 1 atom of He

c. 2 g of He

- d. 1 mole atoms of He
- 2. Which of the following is a triatomic molecule?
- a. Glucose b. Helium c. Carbon dioxide d. Hydrogen
- 3. The volume occupied by 4.4 g of CO₂ at S.T.P
- a. 22.4 litre b. 2.24 litre c. 0.24 litre d. 0.1 litre
- 4. Mass of 1 mole of Nitrogen atom is a. 28 amu b. 14 amu c. 28 g d. 14 g
- 5. Which of the following represents 1 amu?
- a. Mass of a C 12 atom b. Mass of a hydrogen atom
- c. 1/12th of the mass of a C 12 atom
- d. Mass of O 16 atom
- 6. Which of the following statement is incorrect?
- a. One gram of C 12 contains Avogadro's number of atoms.
- b. One mole of oxygen gas contains Avogadro's number of molecules.
- c. One mole of hydrogen gas contains Avogadro's number of atoms.
- d. One mole of electrons stands for 6.023×1023 electrons.
- 7. The volume occupied by 1 mole of a diatomic gas at
- S.T.P is
- a. 11.2 litre b. 5.6 litre c. 22.4 litre d. 44.8 litre
- 8. In the nucleus of 20Ca40, there are
- a. 20 protons and 40 neutrons
- b. 20 protons and 20 neutrons
- c. 20 protons and 40 electrons
- d. 40 protons and 20 electrons
- 9. The gram molecular mass of oxygen molecule is
- a. 16 g b. 18 g c. 32 g d. 17 g

10. 1 mole of any substance contains molecules.	a. Saturated solution b. Un saturated solution	
a. 6.023×10^{23} b. 6.023×10^{-23}	c. Super saturated solution d. Dilute solution	
c. 3.0115×10^{23} d. 12.046×10^{23}	5. Identify the non aqueous solution.	
LESSON 8	a. sodium chloride in water b. glucose in water	
1. The number of periods and groups in the periodic table	c. copper sulphate in water d. sulphur in carbon-di-sulphide	
are	6. When pressure is increased at constant temperature the	
a) 6,16 b) 7,17 c) 8,18 d) 7,18	solubility of gases in liquid	
2. The basis of modern periodic law is	a. No change b. increases c. decreases d. no reaction	
a) atomic number b) atomic mass	7. Solubility of NaCl in 100 ml water is 36 g. If 25 g of salt	
c) isotopic mass d) number of neutrons	is dissolved in 100 ml of water how much more salt is	
3 group contains the member of halogen family.	required for saturation	
a) 17th b) 15th c) 18th d) 16th	a. 12g b. 11g c. 16g d. 20g	
4 is a relative periodic property	8. A 25% alcohol solution means	
a) atomic radii b) ionic radii	a. 25 ml alcohol in 100 ml of water	
c) electron affinity d) electronegativity	b. 25 ml alcohol in 25 ml of water	
5. Chemical formula of rust is	c. 25 ml alcohol in 75 ml of water	
a) FeO.xH ₂ O b) FeO ₄ .xH ₂ O c) Fe ₂ O ₃ .xH ₂ O d) FeO	d. 75 ml alcohol in 25 ml of water	
6. In the alumino thermic process the role of Al is	9. Deliquescence is due to	
a) oxidizing agent b) reducing agent	a. Strong affinity to water b. Less affinity to water	
c) hydrogenating agent d) sulphurising agent	c. Strong hatred to water d. Inertness to water	
7. The process of coating the surface of metal with a thin	10. Which of the following is hygroscopic in nature?	
layer of zinc is called	a. ferric chloride b. copper sulphate penta hydrate	
a) painting b) thinning c) galvanization d) electroplating	c. silica gel d. none of the above	
8. Which of the following have inert gases 2 electrons in	LESSON 11	
the outermost shell.	1. $H_2(g) + Cl_2(g) \rightarrow 2HCl(g)$ is a	
a) He b) Ne c) Ar d) Kr	a. Decomposition Reaction b. Combination Reaction	
9. Neon shows zero electron affinity due to	c. Single Displacement Reaction	
a) stable arrangement of neutrons	d. Double Displacement Reaction	
b) stable configuration of electrons	2. Photolysis is a decomposition reaction caused by	
c) reduced size d) increased density	a. heat b. electricity c. light d. mechanical energy	
10 is an important metal to form amalgam.	3. A reaction between carbon and oxygen is represented by	
a) Ag b) Hg c) Mg d) Al	$C(s) + O_2(g) \rightarrow CO_2(g) + Heat$. In which of the type(s), the	
<u>LESSON 10</u>	above reaction can be classified?	
1. A solution is a mixture.	(i) Combination Reaction (ii) Combustion Reaction	
a. homogeneous b. heterogeneous	(iii) Decomposition Reaction (iv) Irreversible Reaction	
c. homogeneous and heterogeneous d. non homogeneous	a. i and ii b. i and iv c. i, ii and iii d. i, ii and iv	
2. The number of components in a binary solution is	4. The chemical equation $Na_2 SO_4(aq) + BaCl_2(aq) \rightarrow$	
a. 2 b. 3 c. 4 d. 5	BaSO ₄ (s)↓ + 2NaCl(aq) represents which of the following	
3. Which of the following is the universal solvent?	types of reaction?	
a. Acetone b. Benzene c. Water d. Alcohol	a. Neutralisation b. Combustion	
4. A solution in which no more solute can be dissolved in a	c. Precipitation d. Single displacement	
definite amount of solvent at a given temperature is called _		

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- 5. Which of the following statements are correct about a chemical equilibrium?
- (i) It is dynamic in nature
- (ii) The rate of the forward and backward reactions are equal at equilibrium
- (iii) Irreversible reactions do not attain chemical equilibrium
- (iv) The concentration of reactants and products may be different
- a. i, ii and iii b. i, ii and iv c. ii, iii and iv d. i, iii and iv
- 6. A single displacement reaction is represented by X(s) + $2HCl(aq) \rightarrow XCl_2(aq) + H_2(g)$. Which of the following(s)
- could be X.
- (i) Zn (ii) Ag (iii) Cu (iv) Mg.

Choose the best pair.

- b. ii and iii c. iii and iv a. i and ii d. i and iv
- 7. Which of the following is not an "element + element \rightarrow compound" type reaction?
- a. $C(s) + O_2(g) \rightarrow CO_2(g)$
- b. $2K(s) + Br_2(l) \rightarrow 2KBr(s)$
- c. $2CO(g) + O_2(g) \rightarrow 2CO_2(g)$
- d. $4\text{Fe}(s) + 3\text{O}_2(g) \rightarrow 2\text{Fe}_2 \text{ O}_3(s)$
- 8. Which of the following represents a precipitation reaction?
- a. $A(s) + B(s) \rightarrow C(s) + D(s)$
- b. $A(s) + B(aq) \rightarrow C(aq) + D(l)$
- c. $A(aq) + B(aq) \rightarrow C(s) + D(aq)$
- d. $A(aq) + B(s) \rightarrow C(aq) + D(1)$
- 9. The pH of a solution is 3. Its [OH–] concentration is
- b. 3 M c. 1×10^{-11} M d. 11 M a. $1 \times 10^{-3} \text{ M}$
- 10. Powdered CaCO3 reacts more rapidly than flaky CaCO3 because of
- a. large surface area
- b. high pressure
- c. high concentration
- d. high temperature

LESSON 11

- 1. The molecular formula of an open chain organic compound is C₃H₆. The class of the compound is
- a. alkane
- b. alkene
- c. alkyne
- d. alcohol
- 2. The IUPAC name of an organic compound is 3-Methyl butan-1-ol. What type compound it is?
- a. Aldehyde b. Carboxylic acid c. Ketone d. Alcohol

- 3. The secondary suffix used in IUPAC nomenclature of an aldehyde is _____
- a. ol b. oic acid
- c. al d. - one
- 4. Which of the following pairs can be the successive members of a homologous series?
- a. C_3H_8 and C_4H_{10}
- b. C_2H_2 and C_2H_4
- c. CH₄ and C₃H₆
- d. C₂H₅OH and C₄H₈OH
- 5. $C_2H_5OH + 3O_2 \rightarrow 2CO_2 + 3H_2O$ is a
- a. Reduction of ethanol
- b. Combustion of ethanol
- c. Oxidation of ethanoic acid d. Oxidation of ethanal
- 6. Rectified spirit is an aqueous solution which contains
- about _____ of ethanol
- a. 95.5 %
- b. 75.5 %
- c. 55.5 %
- d. 45.5 %
- 7. Which of the following are used as anaesthetics?
- a. Carboxylic acids b. Ethers c. Esters d. Aldehydes
- 8. TFM in soaps represents ____ content in soap
- a. mineral b. vitamin c. fatty acid d. carbohydrate
- 9. Which of the following statements is wrong about detergents?
- a. It is a sodium salt of long chain fatty acids
- b. It is sodium salts of sulphonic acids
- c. The ionic part in a detergent is $-SO_3 Na+$
- d. It is effective even in hard water.

LESSON 12

- 1. Casparian strips are present in the _____ of the root.
- a) cortex

- b) pith c) pericycle d) endodermis
- 2. The endarch condition is the characteristic feature of
- a) root
- - b) stem c) leaves
- d) flower
- 3. The xylem and phloem arranged side by side on same

radius is called

- a) radial b) amphivasal c) conjoint d) None of these
- 4. Which is formed during anaerobic respiration
- a) Carbohydrate
- b) Ethyl alcohol
- b) Acetyl CoA
- d) Pyruvate
- 5. Kreb's cycle takes place in
- a) chloroplast b) mitochondrial matrix
- c) stomata
- d) inner mitochondrial membrane
- 6. Oxygen is produced at what point during photosynthesis?
- a) when ATP is converted to ADP b) when CO₂ is fixed
- c) when H₂O is splitted
- d) All of these

LESSON 13

- 1. In leech locomotion is performed by
- a) Anterior sucker
- b) Posterior sucker
- c) Setae
- d) None of the above
- 2. The segments of leech are known as
- a) Metameres (somites)
- b) Proglottids
- c) Strobila
- d) All the above
- 3. Pharyngeal ganglion in leech is a part of
- a) Excretory system
- b) Nervous system
- c) Reproductive system
- d) Respiratory system
- 4. The brain of leech lies above the
- a) Mouth
- b) Buccal Cavity c) Pharynx
- d) Crop

- 5. The body of leech has
- a) 23 segments
- b) 33 segments
- c) 38 segments
- d) 30 segments
- 6. Mammals are _ a) Cold blooded
- b) Warm blooded

animals.

- c) Poikilothermic
- d) All the above
- 7. The animals which give birth to young ones are
- a) Oviparous
- b) Viviparous
- c) Ovoviviparous
- d) All the above

LESSON 14

- 1. Active transport involves
- a) movement of molecules from lower to higher concentration
- b) expenditure of energy
- c) it is an uphill task
- d) all of the above
- 2. Water which is absorbed by roots is transported to aerial parts of the plant through
- a) cortex
- b) epidermis
- c) phloem
- 3. During transpiration there is loss of
- a) carbon dioxide b) oxygen c) water d) none of the above
- 4. Root hairs are
- a) cortical cell
- b) projection of epidermal cell
- c) unicellular
- d) both b and c
- 5. Which of the following process requires energy?
- a) active transport b) diffusion c) osmosis d) all of them
- 6. The wall of human heart is made of
- a) Endocardium
- b) Epicardium
- c) Myocardium
- d) All of the above
- 7. Which is the sequence of correct blood flow
- a) ventricle atrium vein arteries
- b) atrium ventricle veins arteries

- c) atrium ventricle arteries vein
- d) ventricles vein atrium arteries
- 8. A patient with blood group O was injured in an accident and has blood loss. Which blood group the doctor should effectively use for transfusion in this condition?
- a) O group b) AB group c) A or B group d) all blood group
- 9. 'Heart of heart' is called
- a) SA node b) AV node c) Purkinje fibres d) Bundle of His
- 10. Which one of the following regarding blood composition is correct
- a) Plasma Blood + Lymphocyte
- b) Serum Blood + Fibrinogen
- c) Lymph Plasma + RBC + WBC
- d) Blood Plasma + RBC+ WBC + Platelets

LESSON 15

- 1. Bipolar neurons are found in
- (a) retina of eye
- (b) cerebral cortex
- (c) embryo
- (d) respiratory epithelium
- 2. Site for processing of vision, hearing, memory, speech, intelligence and thought is
- (a) kidney
- (b) ear (c) brain
- (d) lungs
- 3. In reflex action, the reflex arc is formed by
- (a) brain, spinal cord, muscle
- (b) receptor, muscle, spinal cord
- (c) muscle, receptor, brain (d) receptor, spinal cord, muscle
- 4. Dendrites transmit impulse cell body and axon transmit impulse cell body.
- (a) away from, away from
- (b) towards, away from
- (c) towards, towards
- (d) away from, towards
- 5. The outer most of the three cranial meninges is
- (a) arachnoid membrane (b) piamater
- (c) duramater
- (d) myelin sheath
- 6. There are pairs of cranial nerves and pairs of spinal nerves.
- (a) 12, 31
- (b) 31, 12
- (c) 12, 13
- (d) 12, 21
- 7. The neurons which carries impulse from the central nervous system to the muscle fibre.
- (a) afferent neurons
- (b) association neuron
- (c) efferent neuron
- (d) unipolar neuron
- 8. Which nervous band connects the two cerebral
- hemispheres of brain?

(a) thalamus

- (b) hypothalamus
- (c) corpus callosum
- (d) pons

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9. Node of Ranvier is foun	d in	LESS	ON 17
(a) muscles (b) axons (c) d	endrites (d) cyton	1. The plant which propagates	s with the help of its leaves is
10. Vomiting centre is loca	ated in	·	
(a) medulla oblongata	(b) stomach	a) Onion b) Neem c) Gi	inger d) Bryophyllum
(c) cerebrum	(d) hypothalamus	2. Asexual reproduction takes	place through budding in
11. Nerve cells do not poss	sess		
•	mma (c) axon (d) dendrites	a) Amoeba b) Yeast c) Pl	asmodium d) Bacteria
12. A person who met with an accident lost control of body		3. Syngamy results in the form	mation of
temperature, water balance, and hunger. Which of the		a) Zoospores b) Conidia c) Zy	
following part of brain is s	upposed to be damaged?	4. The essential parts of a flow	
(a) Medulla oblongata	(b) cerebrum	a) Calyx and Corolla b) Calyx	
(c) pons	(d) hypothalamus	c) Corolla and Gynoecium d)	
<u>LE</u>	<u>CSSON 16</u>	5. Anemophilous flowers have	e
1. Gibberellins cause:			Small smooth stigma
a) Shortening of geneticall	y tall plants	c) Colored flower d)	Large feathery stigma
b) Elongation of dwarf pla	nts	6. Male gametes in angiosperi	ms are formed by the division
c) Promotion of rooting		of	
d) Yellowing of young lear	ves	a) Generative cell	b) Vegetative cell
2. The hormone which has	positive effect on apical	c) Microspore mother cell	d) Microspore
dominance is:		7 What is true of gametes?	
a) Cytokinin b) Auxin	n c) Gibberellin d) Ethylene	a) They are diploid b) They gi	ive rise to gonads
3. Which one of the following hormones is naturally not c) They produce hormones d) They are formed from gor		They are formed from gonads	
		8. A single highly coiled tube	where sperms are stored, get
a) 2, 4-D b) GA3	c) Gibberellin d) IAA	concentrated and mature is kn	nown as
4. Avena coleoptile test wa	as conducted by	a) Epididymis b)	Vasa efferentia
a) Darwin b) N. Sm	nit c) Paal d) F.W. Went	c) Vas deferens d)	Seminiferous tubules
5. To increase the sugar production in sugarcanes they are		9. The large elongated cells th	nat provide nutrition to
sprayed with		developing sperms are	
a) Auxin b) Cytokinin	c) Gibberellins d) Ethylene	a) Primary germ cells	b) Sertoli cells
6. LH is secreted by		c) Leydig cells	d) Spermatogonia
a) Adrenal gland	b) Thyroid gland	10 Estrogen is secreted by	
c) Anterior pituitary	d) Hypothalamus.	a) Anterior pituitary	b) Primary follicle
7. Identify the exocrine gla	ind	c) Graffian follicle	d) Corpus luteum
a) Pituitary gland	b) Adrenal gland	11. Which one of the following	ng is an IUCD?
c) Salivary gland	d) Thyroid gland	a) Copper – T b) Oral pills c)	Diaphragm d) Tubectomy
8. Which organ acts as bot	h exocrine gland as well as	<u>LESS</u>	ON 18
endocrine gland		1. According to Mendel allele	es have the following character
a) Pancreas b) Kidne	ey c) Liver d) Lungs	a) Pair of genes b)	Responsible for character
9. Which one is referred as	s "Master Gland"?	c) Production of gametes d)	Recessive factors
a) Pineal gland	b) Pituitary gland	2. 9 : 3 : 3 : 1 ratio is due to	
c) Thyroid gland	d) Adrenal gland	a) Segregation	b) Crossing over
		c) Independent assortment	d) Recessiveness

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3. The region of the chromosome where the spindle fibres	LESSON 20	
get attached during cell division	1. Which method of crop improvement can be practised by	
a) Chromomere b) Centrosome	a farmer if he is inexperienced?	
c) Centromere d) Chromonema	a. clonal selection b. mass selection	
4. The centromere is found at the centre of the	c. pureline selection d. hybridisation	
chromosome.	2. Pusa Komal is a disease resistant variety of	
a) Telocentric b) Metacentric	a. sugarcane b. rice c. cow pea d. maize	
c) Sub-metacentric d) Acrocentric	3. Himgiri developed by hybridisation and selection for	
5. The units form the backbone of the	disease resistance against rust pathogens is a variety of	
DNA.		
a) 5 carbon sugar b) Phosphate	a. chilli b. maize c. sugarcane d. wheat	
c) Nitrogenous bases d) Sugar phosphate	4. The miracle rice which saved millions of lives and	
6. Okasaki fragments are joined together by	celebrated its 50th birthday is	
a) Helicase b) DNA polymerase	a. IR 8 b. IR 24 c. Atomita 2 d. Ponni	
c) RNA primer d) DNA ligase	5. Which of the following is used to produce products	
7. The number of chromosomes found in human beings are	useful to humans by biotechnology techniques?	
·	a. enzyme from organism b. live organism	
a) 22 pairs of autosomes and 1 pair of allosomes.	c. vitamins d. both (a) and (b)	
b) 22 autosomes and 1 allosome	6. We can cut the DNA with the help of	
c) 46 autosomes	a. scissors b. restriction endonucleases c. knife d. RNAase	
d) 46 pairs autosomes and 1 pair of allosomes.	7. rDNA is a	
8. The loss of one or more chromosome in a ploidy is called	a. vector DNA b. circular DNA	
c. recombinant of vector DNA and desired DNA		
a) Tetraploidy b) Aneuploidy c) Euploidy d) polyploidy	d. satellite DNA	
LESSON 19	8. DNA fingerprinting is based on the principle of	
Biogenetic law states that	identifying sequences of DNA	
a. Ontogeny and phylogeny go together	a. single stranded b. mutated c. polymorphic d. repetitive	
b. Ontogeny recapitulates phylogeny	9. Organisms with modified endogenous gene or a foregin	
c. Phylogeny recapitulates ontogeny	gene are also known as	
d. There is no relationship between phylogeny and	(a) transgenic organsims (b) genetically modified	
ontogeny	(c) mutated (d) both a and b	
2. The 'use and disuse theory' was proposed by	10. In a hexaploid wheat $(2n = 6 x = 42)$ the haploid (n)	
a. Charles Darwin b. Ernst Haeckel	and the basic(x) number of chromosomes respectively are	
c. Jean Baptiste Lamarck d. Gregor Mendel	a. $n = 7$ and $x = 21$ b. $n = 21$ and $x = 21$	
3. Paleontologists deal with	c. $n = 7$ and $x = 7$ d. $n = 21$ and $x = 7$	
a. Embryological evidences b. Fossil evidences	LESSON 21	
c. Vestigial organ evidences d. All the above	1. Tobacco consumption is known to stimulate secretion of	
4. The best way of direct dating fossils of recent origin is by	adrenaline. The component causing this could be	
a. Radio-carbon method b. Uranium lead method	a) Nicotine b) Tannic acid c) Curcumin d) Leptin	
c. Potassium-argon method d. Both (a) and (c)	2. World 'No Tobacco Day' is observed on	
5. The term Ethnobotany was coined by	a) May 31 b) June 6 c) April 22 d) October 2	
a. Khorana b. J.W. Harsbberger	•	
c. Ronald Ross d. Hugo de Vries		
MOHAMMED ALI A P.G. ASST. (BIOLOGY) KHADERIA H	IR. SEC. SCHOOL, VNB. Page 8	

normal cells because they are a) Different in structure b) Non-dividing c) Mutated Cells d) Undergoing rapid division 4. Which type of cancer affects lymph nodes and spleen? a) Carcinoma b) Sarcoma c) Leukemia d) Lymphoma 5. Excessive consumption of alcohol leads to a) Loss of memory b) Cirrhosis of liver c) State of hallucination d) Supression of brain function 6. Coronary heart disease is due to a) Streptococci hacteria b) Inflammation of pericardium c) Weakening of heart valves d) Insufficient blood supply to heart muscles 7. Cancer of the epitchial cells is called a) Leukemia b) Sarcoma c) Carcinoma d) Lipoma 8. Metastasis is associated with a) Malignant tumour b) Benign tumour c) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Both (a) and (b) d) Crown gall tumour e) Diabetes mellitus e) Diabe	3. Cancer cells are more easily damaged by radiations than	c) rain fall is high d) none of these
a) Different in structure b) Non-dividing c) Mutract Cells d) Undergoing rapid division 4. Which type of cancer affects lymph nodes and spleen? 3. Carcinoma b) Sacroma c) Leckmia d) Lymphoma 5. Excessive consumption of alcohol leads to a) Loss of memory b) Cirrhosis of liver c) State of hallucination d) Supression of brain function 6. Coronary heart disease is due to a) Streptococci bacteria b) Inflammation of pericardium c) Weakning of heart ratives d) Insufficient blood supply to heart muscles d) Insufficient blood supply to heart muscles d) Insufficient blood supply to heart muscles 3. Leukemia b) Sacroma c) Carcinoma d) Lipoma 8. Metastasis is associated with a) Malignant tumour b) Benign tumour e) Polyphagia is a condition seen in a) Obesity b) Diabetes mellitus c) Diabetes instipidus d) AIDS 10. Where does alcohol effect immediately after drinking? a) Eyes b) Auditory region c) Liver d) Central nervous system LESSON 22 1. Which of the following is / are a fossil fuel? 12. What are the steps will yoursafen for welicles exhaust are a) i notly b) i and ii c) ii and iii d) i, ii and iii 2. What are the steps will yoursafen for benefit waste or recycle the waste or		
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c) Weakening of heart valves d) Insufficient blood supply to heart muscles 7. Cancer of the epithelial cells is called a) Leukemia b) Sarcoma c) Carcinoma d) Lipoma 8. Metastasis is associated with a) Malignant tumour b) Benign tumour c) Both (a) and (b) d) Crown gall tumour 9. Polyphagia is a condition seen in a) Obesity b) Diabetes mellitus c) Diabetes insipidus d) AIDS 10. Where does alcohol effect immediately after drinking? a) Eyes b) Auditory region c) Liver d) Central nervous system LESSON 22 1. Which of the following is / are a fostil fuel? i. Tar ii. Coal iii. Petroleum a) i only b) i and ii d) ii and iii d) i, ii and iii 2. What are the steps will you adopt for better waste management? a) reduce the amount of waste formed b) reuse the waste c) recycle the waste c) recycle the waste d) all of the above 3. The gas released from vehicles exhaust are i. cartoan monoxide if. Sulphur dioxide iii. Oxides of nitrogen a) i and i b) i and iii c) ii and iii d) i, ii and iii 4. Soil erosion can be prevented by a) deforestation b) afforestion c) over growing d) removal of vegetation 5. A renewable source of energy is a) hydropower b) solar energy d) whermal energy d) which energy is a renewable energy d) which energy is a re	·	
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a) Malignant tumour c) Both (a) and (b) d) Crown gall tumour 9. Polyphagia is a condition seen in a) Obesity b) Diabetes mellitus c) Diabetes insipidus d) AIDS 10. Where does alcohol effect immediately after drinking? a) Eyes b) Auditory region c) Liver d) Central nervous system LESSON 22 1. Which of the following is / are a fossil-fuel? i. Tar ii. Coal iii. Petroleum a) i only b) i and ii c) ii and iii d) i, ii and iii 2. What are the steps will you adopt (for better waste management? a) reduce the amount of waste formed b) reuse the waste c) recycle the waste c) recycle the waste c) recycle the waste d) all of the above 3. The gas released from vehicles exhaust are i. carbon monoxide ii. Sulphur dioxide iii. Oxides of nitrogen a) i and ii b) i and iii c) ii and iii d) i, ii and iii 4. Soil erosion can be prevented by a) deforestation b) afforestion c) over growing d) removal of vegetation 5. A renewable source of energy is a) no rain fall b) low rainfall c) sinking of islands d) all of these 12. Which of the following statement is wrong with respect to wind energy is a renewable energy b) wind energy is a renewable energy b) the blades of wind mill are operated with the help of electric motor c) production of wind energy is pollution free d) usage of wind mill are operated with the help of electric motor c) production of wind energy is pollution free d) usage of wind energy is network and energy is pollution free d) usage of wind energy is a renewable energy b) the blades of wind mill are operated with the help of electric motor c) production of wind energy is a renewable energy b) the blades of wind mill are operated with the help of electric motor c) production of wind energy is a renewable energy b) the blades of wind mill are operated with the help of electric motor c) production of wind energy is a renewable energy b) the blades of wind mill are operated with the help of electric motor c) production of wind energy is a renewable energy b) the blades of wind mill are operated with the help of electric m	a) Leukemia b) Sarcoma c) Carcinoma d) Lipoma	11. Global warming will cause
c) Both (a) and (b) d) Crown gall tumour 9. Polyphagia is a condition seen in a) Obesity b) Diabetes mellitus c) Diabetes insipidus d) AIDS 10. Where does alcohol effect immediately after drinking? a) Eyes b) Auditory region c) Liver d) Central nervous system LESSON 22 1. Which of the following is / are a fossil-fuel? i. Tar ii. Coal iii. Petroteum a) i only b) i and ii o) ii and iii d) i, ii and iii 2. What are the steps will you adopt for better waste management? a) reduce the amount of waste formed b) reuse the waste c) recycle the waste c) recycle the waste d) all of the above 3. The gas released from vehicles exhaust are i. carbon monoxide if. Sulphur dioxide iii. Oxides of nitrogen a) i and ii b) i and iii c) ii and iii d) i, ii and iii 4. Soil erosion can be prevented by a) deforestation b) afforestion c) over growing d) removal of vegetation 5. A renewable source of energy is a) petroleum b) coal c) nuclear fuel d) trees 6. Soil erosion is more where there is a) no rain fall b) low rainfall	8. Metastasis is associated with	a) raise in level of oceans b) melting of glaciers
9. Polyphagia is a condition seen in a) Obesity b) Diabetes mellitus c) Diabetes insipidus d) AIDS 10. Where does alcohol effect immediately after drinking? a) Eyes b) Auditory region c) Liver d) Central nervous system LESSON 22 1. Which of the following is / are a fossil-fuel? i. Tar ii. Coal iii. Petroteum a) i only b) i and ii c) ii and iii d) i, ii and iii 2. What are the steps will you adopt for better waste management? a) reduce the amount of waste formed b) reuse the waste c) recycle the waste d) all of the above 3. The gas released from vehicles exhaust are i. carbon monoxide ii. Sulphur dioxide iii. Oxides of nitrogen a) i and ii b) i and iii c) ii and iii d) i, ii and iii 4. Soil erosion can be prevented by a) deforestation b) afforestion c) over growing d) removal of vegetation 5. A renewable source of energy is a) petroleum b) coal c) nuclear fuel d) trees 6. Soil erosion is more where there is a) no rain fall b) low rainfall	a) Malignant tumour b) Benign tumour	c) sinking of islands d) all of these
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c) Diabetes insipidus d) AIDS 10. Where does alcohol effect immediately after drinking? a) Eyes b) Auditory region c) Liver d) Central nervous system— LESSON 22 1. Which of the following is / are a fossil fuel? i. Tar ii. Coal iii. Petroleum a) i only b) i and ii c) ii and iii d) i, ii and iii 2. What are the steps will you adopt for better waste management? a) reduce the amount of waste formed b) reuse the waste c) recycle the waste d) all of the above 3. The gas released from vehicles exhaust are i. carbon monoxide ii. Sulphur dioxide iii. Oxides of nitrogen a) i and ii b) i and iii c) ii and iii d) i, ii and iii 4. Soil erosion can be prevented by a) deforestation b) afforestion c) over growing d) removal of vegetation 5. A renewable source of energy is a) petroleum b) coal c) nuclear fuel d) trees 6. Soil erosion is more where there is a) no rain fall b) low rainfall	9. Polyphagia is a condition seen in	to wind energy
10. Where does alcohol effect immediately after drinking? a) Eyes b) Auditory region c) Liver d) Central nervous system LESSON 22 1. Which of the following is / are a fossil-fuel? i. Tar ii. Coal iii. Petroleum a) i only b) i and ii c) ii and iii d) i, ii and iii 2. What are the steps will you adopt for better waste management? a) reduce the amount of waste formed b) reuse the waste c) recycle the waste d) all of the above 3. The gas released from vehicles exhaust are i. carbon monoxide ii. Sulphur dioxide iii. Oxides of nitrogen a) i and ii b) i and iii c) ii and iii d) i, ii and iii 4. Soil erosion can be prevented by a) deforestation b) afforestion c) over growing d) removal of vegetation 5. A renewable source of energy is a) petroleum b) coal c) nuclear fuel d) trees 6. Soil erosion is more where there is a) no rain fall b) low rainfall	a) Obesity b) Diabetes mellitus	a) wind energy is a renewable energy
a) Eyes b) Auditory region c) Liver d) Central nervous system LESSON 22 1. Which of the following is / are a fossil fuel? i. Tar ii. Coal iii. Petroleum a) i only b) i and ii o) ii and iii o) ii a	c) Diabetes insipidus d) AIDS	b) the blades of wind mill are operated with the help of
LESSON 22 1. Which of the following is / are a fossil-fuel? i. Tar ii. Coal iii. Petroleum a) i only b) i and ii c) ii and iii d) i, ii and iii 2. What are the steps will you adopt for better waste management? a) reduce the amount of waste formed b) reuse the waste c) recycle the waste d) all of the above 3. The gas released from vehicles exhaust are i. carbon nonoxide ii. Sulphur dioxide iii. Oxides of nitrogen a) i and ii b) i and iii c) ii and iii d) i, ii and iii 4. Soil erosion can be prevented by a) deforestation b) afforestion c) over growing d) removal of vegetation 5. A renewable source of energy is a) no rain fall b) low rainfall d) usage of wind energy can reduce the consumption of fossil fuels LESSON 23 1. Which software is used to create animation? a) Paint b) PDF c) MS Word d) Scratch 2. All files are stored in the	10. Where does alcohol effect immediately after drinking?	electric motor
LESSON 22 1. Which of the following is / are a fossil fuel? i. Tar ii. Coal iii. Petroleum a) i only b) i and ii c) ii and iii d) i, ii and iii 2. What are the steps will you adopt for better waste management? a) reduce the amount of waste formed b) reuse the waste c) recycle the waste d) all of the above 3. The gas released from vehicles exhaust are i. carbon nonoxide ii. Sulphur dioxide iii. Oxides of nitrogen a) i and ii b) i and iii c) ii and iii d) i, ii and iii 4. Soil erosion can be prevented by a) deforestation b) afforestion c) over growing d) removal of vegetation 5. A renewable source of energy is a) portoleum b) coal c) nuclear fuel d) trees 6. Soil erosion is more where there is a) no rain fall b) low rainfall	a) Eyes b) Auditory region	c) production of wind energy is pollution free
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