# Mazharul Uloom Higher Secondary School, Ambur.

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Name of the Student :	Medium of Instruction	: English Medium
Roll No :	Class & Section	: 10 <sup>th</sup> Std –
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5622762 6172 1122	(all &e281101/8	
1. LAWS O	OF MOTION	
<b>Choose the correct answer:</b>		
1) Inertia of a body depends on		
(a) Weight of the object (b) acceleration due to	gravity of the planet (c) mass of the o	bject (d) Both a & b
2) Impulse is equals to	d di (a) -l (b)	) f -1 f
(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) hadha 0 h. (d) a nla fan had	1: : : : : : : : : : : : : : : :
(a) For a body is at rest (b) for a body in motio		•
4) Plotting a graph for momentum on the X-axis and (a) Impulsive force (b) Acceleration (c) For	_	-time graph gives
<ul><li>(a) Impulsive force</li><li>(b) Acceleration</li><li>(c) For</li><li>5) In which of the following sport the turning of effective force</li></ul>		
	ockey	
6) The unit of 'g' is m s-2. It can be also expressed as		
(a) cm s <sup>-1</sup> (b) N kg <sup>-1</sup> (c) N m <sup>2</sup> kg <sup>-1</sup>	(d) $cm^2 s^{-2}$	
7) One kilogram force equals to	(d) cm s	
(a) 9.8 dyne (b) $9.8 \times 10^4$ N (c) $98 \times 10^4$	dyne (d) 980 dyne	
8) The mass of a body is measured on planet Earth a	•	of radius half that of the
Earth then its value will bekg	is wing. When it is taken to a planet	of radius hair that of the
(a) 4 M (b) 2M (c) M/4 (d) M		
(9) If the Earth shrinks to 50% of its real radius its mass	s remaining the same, the weight of a b	ody on the Earth will
		ase by 300%
10) To project the rockets which of the following prints	•	
(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	
Fill in the blanks.		
THI III CHE DIANKS.		
1. To produce a displacement is requi		
2. Passengers lean forward when sudden brake is appl	_	- •
3. By convention, the clockwise moments are taken as	s and the anticlockwise mome	ents are taken as
4 is used to change the speed of car.		
5. A man of mass 100 kg has a weight of	at the surface of the Earth.	

### Match the following

Column I Column II Newton's 1 propulsion of a rocket 1. 2. Newton's II law Stable equilibrium of a body Newton's III law Law of force 3. 4. Law of conservation of Linear momentum Flying nature of bird 2. OPTICS **Choose the correct answer:** 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 (d) D (a) A (b) B 2. Where should an object be placed so that a real and inverted image of same size is obtained by a convex lens (c) infinity (d) between f and 2f (b) 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 (d) a colored beam of light (c) a parallel beam of light 4. Magnification of a convex lens is (c) either positive or negative (a) Positive (b) Negative (d) zero 5. A convex lens forms a real, diminished point sized image at focus. Then the position of the object is at (d) between f and 2f (a) Focus (b) infinity (c) at 2f 6. Power of a lens is -4D, then its focal length is (d) -2.5 m(c) -0.25 m(b) -40m(a) 4m 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 V<sub>B</sub>, V<sub>G</sub>, V<sub>R</sub> 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)  $V_B = V_G = V_R$ (b)  $V_B > V_G > V_R$ (c)  $V_B < V_G < V_R$ (d)  $V_B < V_G > V_R$ 

Fill in the blanks:
1. The path of the light is called as
2. The refractive index of a transparent medium is always greater than
3. If the energy of incident beam and the scattered beam are same, then the scattering of light is called as scattering.
4. According to Rayleigh's scattering law, the amount of scattering of light is inversely proportional to the fourth power of its

5. Amount of light entering into the eye is controlled by \_\_\_\_\_

#### Match the following:

#### Column - I

#### Column - II

- Retina path way of light
   Pupil Far point comes closer
   Ciliary muscles near point moves away
   Myopia Screen of the eye
- 5. Hypermetropia Power of accommodation.

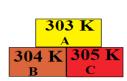
#### 3. THERMAL PHYSICS

#### **Choose the correct answer:**

- 1. The value of universal gas constant
  - (a) 3.81 mol<sup>-1</sup> K<sup>-1</sup>
- (b) 8.03 mol<sup>-1</sup> K<sup>-1</sup>
- (c) 1.38 mol<sup>-1</sup> K<sup>-1</sup>
- (d) 8.31 mol<sup>-1</sup> K<sup>-1</sup>
- 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

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- 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  $\longleftarrow$  C,B  $\longrightarrow$  C

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

#### Fill in the blanks:

- 1. The value of Avogadro number
- 2. The temperature and heat are \_\_\_\_\_ quantities.
- 3. One calorie is the amount of heat energy required to raise the temperature of \_\_\_\_\_ of water through\_\_
- 4. According to Boyle's law, the shape of the graph between pressure and reciprocal of volume is\_\_\_\_\_

### **Match the following:**

#### Column-I

#### Column-II

- 1. Linear expansion
- (a) change in volume
- 2. Superficial expansion
- (b) hot body to cold body
- 3. Cubical expansion
- (c)  $1.381 \times 10^{-23} \text{ JK}^{-1}$
- 4. Heat transformation
- (d) change in length
- 5. Boltzmann constant
- (e) change in area

#### 4. ELECRTICITY

#### **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. Kindly send me your key answers to our email id padasalai.net@gamil.com

2. SI unit of resistance is	1- (-) -1	(1) -1,4	
(a) mho (b) jo		(d) ohm meter	
<ul><li>3. In a simple circuit, why do</li><li>(a) The switch product</li><li>(c) Closing the switch</li></ul>	-	(b) Closing the switch	h completes the circuit.
4. Kilowatt hour is the unit of	f		
(a) Resistivity (b) co	onductivity (c) el	lectrical energy (d) el	ectrical power
Fill in the blanks:			
1. When a circuit is open,	cannot p	ass through it.	
2. The ratio of the potential d	ifference to the current	is known as	
3. The wiring in a house cons	sists of circ	uits.	
<ul><li>4. The power of an electric de</li><li>5. LED stands for</li></ul>	=	and	
Match the following:			
Column - I	Column - II		
1. electric current	(a) volt		
2. potential difference	(b) ohm mete	er 💮	<b>y</b>
3. specific resistance	(c) watt		
4. electrical power	(d) joule		
5. electrical energy	(e) ampere		
	5. ACOUST	TICS	
<b>Choose the correct answer</b>	<u>:</u>		
1. When a sound wave trave	els through air, the air	particles	
	e direction of the wave cular to the direction of		ibrate but not in any fixed direction (d) do not vibrate
			sure is increased by 4 times without
causing a change in the tem			(n. 200 -1
(a) $330 \text{ m s}^{-1}$		(c) $156 \text{ m s}^{-1}$	(d) 990 m s <sup>-</sup>
3. The frequency, which is a			(1) 10000 LH-
(a) 50 kHz	(b) 20 kHz	(c) 15000 kHz	(d) 10000 kHz
4. The velocity of sound temperature is doubled and	-	-	n s-1. What will be its value when
(a) 330 m s <sup>-1</sup>	(b) 165 m s <sup>-1</sup>	(c) $330 \times \sqrt{2} \text{ m s}^{-1}$	(d) $320 / \sqrt{2} \text{ m s}^{-1}$
5. If a sound wave travels w	rith a frequency of 1.2	$5 \times 104$ 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 rewards Which of the following characters.		cle into the same med	ium from which they were incident.
(a) Speed	(b) frequency	(c) wavelength	(d) none of these
7. Velocity of sound in the a sound and the obstacle to hea		is 500 m s <sup>-1</sup> . The min	imum distance between the sources of

(a) 17 Kandly send me (Sold Oktey answers to dar 25 mail id - padasal (1) ned @gamil.com

Fill up the	blanks:
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1. Rapid back and forth motion of a particle about its mean position is called
2. If the energy in a longitudinal wave travels from south to north, the particles of the medium would be vibrating in
3. A whistle giving out a sound of frequency 450 Hz, approaches a stationary observer at a speed of 33 ms <sup>-1</sup> . The frequency heard by the observer is (speed of sound = 330 ms <sup>-1</sup> .)
4. A source of sound is travelling with a velocity 40 km/h towards an observer and emits a sound of frequency 2000 Hz. If the velocity of sound is 1220 km/h, then the apparent frequency heard by the observer is
Match the following:
1. Infrasonic - (a) Compressions
2. Echo - (b) 22 kHz
3. Ultrasonic - (c) 10 Hz
4. High pressure region - (d) Ultrasonography
6. NUCLEAR PHYSICS
Choose the correct answer:
<ol> <li>Man-made radioactivity is also known as</li></ol>
2. Unit of radioactivity is  (a) Roentgen (b) curie (c) Becquerel (d) all the above
3. Artificial radioactivity was discovered by
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
5 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
7aprons are used to protect us from gamma radiations  (a) Lead oxide (b) Iron (c) Lead (d) Aluminium
<ul> <li>8. Which of the following statements is/are correct?</li> <li>i. α particles are photons</li> <li>ii. Penetrating power of γ radiation is very low</li> <li>iii. Ionization power is maximum for α rays</li> <li>iv. Penetrating power of γ radiation is very high</li> </ul>
(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
<ul> <li>10. In the nuclear reaction 6X12 α decay zYA, the value of A &amp; Z.</li> <li>(a) 8, 6</li> <li>(b) 8, 4</li> <li>(c) 4, 8</li> <li>(d) cannot be determined with the given data</li> </ul>

- 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

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#### Fill in the blanks:

- 1. One roentgen is equal to \_\_\_\_\_\_ disintegrations per second
- 2. Positron is an
- 3. Anemia can be cured by \_\_\_\_\_\_ isotope
- 4. Abbreviation of ICRP\_\_\_\_\_
- 5. \_\_\_\_\_\_is used to measure exposure rate of radiation in humans.
- 6. \_\_\_\_\_ has the greatest penetration power.
- 7.  $_{Z}Y^{A} \rightarrow _{Z+1}Y^{A} + X$ ; Then, X is \_\_\_\_\_
- 8.  $_{7}X^{A} \rightarrow _{7}Y^{A}$  This reaction is possible in decay.
- 9. The average energy released in each fusion reaction is about \_\_\_\_\_\_ J.
- 10. Nuclear fusion is possible only at an extremely high temperature of the order of \_\_\_\_\_\_K
- 11. The radio isotope of \_\_\_\_\_ helps to increase the productivity of crops.
- 12. If the radiation exposure is 100 R, it may cause \_\_\_\_\_

### **Match the following:**

#### Match: I

- 1. BARC Kalpakkan
- 2. India's first atomic power station Apsara
- 3. IGCAR Mumbai
- 4. First nuclear reactor in India Tarapur

#### Match: II

- 1. Fuel lead
- 2. Moderator heavy water
- 3. Coolant cadmium rods
- 4. Shield uranium

#### Match: III

- 1. Soddy Fajan Natural radioactivity
- 2. Irene Curie Displacement law
- 3. Henry Becquerel Mass energy equivalence
- 4. Albert Einstein Artificial Radioactivity

#### Match: IV

- 1. Uncontrolled fission Hydrogen Bomb reaction
- 2. Fertile material Nuclear Reactor
- 3. Controlled fission Breeder reactor reaction
- 4. Fusion reaction Atom bomb

#### Match: V

- 1. Co 60 Age of fossil
- 2. I 131 Function of Heart
- 3. Na -11 Leukemia
- 4. C 14 Thyroid disease

#### Arrange the following in the correct sequence:

1. Arrange in descending order, on the basis of their penetration power

Alpha rays, beta rays, gamma rays, cosmic rays

2. Arrange the following in the chronological order of discovery

Nuclear reactor, radioactivity, artificial radioactivity, discovery of radium.

#### Use the analogy to fill in the blank:

1.	Spontaneous process: Natural Radioactivity,
	Induced process:

2. Nuclear Fusion: Extreme temperature,

Nuclear Fission:

3. Increasing crops : Radio phosphorous, Effective functioning of heart:

4. Deflected by electric field : α ray, Null Deflection: \_\_\_\_\_

#### 7. ATOMS AND MOLECULES

#### Choose the best answer:

1.	Which	of the	follow	ing has	the	smallest	mass?

- (a)  $6.023 \times 10^{23}$  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 CO<sub>2</sub> at S.T.P
  - (a) 22.4 liter
- (b) 2.24 liter
- (c) 0.24 liter
- (d) 0.1 liter

- 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  $6.023 \times 10^{23}$  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)  $6.023 \times 10^{23}$
- (b)  $6.023 \times 10^{-23}$
- (c)  $3.0115 \times 10^{23}$
- (d)  $12.046 \times 10^{23}$

# Fill in the blanks:

1. Atoms of different elements having mass i	number, but atomic numbers are called isobars.
2. Atoms of different elements having same number o	f are called isotones.
3. Atoms of one element can be transmuted into atoms	s of other element by
4. The sum of the numbers of protons and neutrons of	an atom is called its
5. Relative atomic mass is otherwise known as	
6. The average atomic mass of hydrogen is	amu.
7. If a molecule is made of similar kind of atoms, then	
8. The number of atoms present in a molecule is called	
9. One mole of any gas occupies ml at S.T.	
10. Atomicity of phosphorous is	
Match the following:	
1. 8g of O <sub>2</sub> -	4 moles
2. 4g of H <sub>2</sub> -	0.25 moles
3. 52g of He -	2 moles
4. 112g of N <sub>2</sub> -	0.5 moles
5. 35.5g of Cl <sub>2</sub> -	13 moles
8. PERIODIC CLASSIFIC.	ATION OF ELEMENTS
Change the heat angwers	
Choose the best answer:  1. The number of periods and groups in the periods	tally and
1. The number of periods and groups in the periodic (a) 6, 16 (b) 7, 17 (c) 8, 18	(d) 7, 18
2. The basis of modern periodic law is	(0) /, 10
(a) atomic number (b) atomic mass	(c) isotopic mass (d) number of neutrons
3 group contains the member of halogen fai	
(a) $17_{th}$ (b) $15_{th}$ (c) $18_{th}$ (d) $16_{th}$ 4 is a relative periodic property	
(a) Atomic radii (b) ionic radii	(c) electron affinity (d) electro negativity
5. Chemical formula of rust is	
(a) FeO.xH <sub>2</sub> O (b) FeO <sub>4</sub> .xH <sub>2</sub> O (c) Fe <sub>2</sub>	
6. In the alumino thermic process the role of Al is (a) Oxidizing agent(b) reducing agent	(c) hydrogenating agent (d) sulphurising agent
7. The process of coating the surface of metal with a the	(c) hydrogenating agent (d) sulphurising agent hin layer of zinc is called
(a) Painting (b) thinning (c) galv	vanization (d) electroplating
8. Which of the following have inert gases 2 electrons	
(a) He (b) Ne (c) Ar	(d) Kr
9. Neon shows zero electron affinity due to	
(a) Stable arrangement of neutrons (b) Stal	ble configuration of electrons
(c) Reduced size (d) incr	reased density
10 is an important metal to form amalgam.	(J) A1
(a) Ag (b) Hg (c) Mg	(u) Ai
Fill in the blanks:	
A AAA VAAV NIMIIINI	

1. If the electro negativity	difference between t	two bonded atoms	in a molecule is greate	r than 1.7, the nature of
bonding is				

3	forms the basis	of modern pe	eriodic table.			
4. If the c	listance between two	o Cl atoms in	Cl <sub>2</sub> molecule is 1.9	98Å, then the rad	lius of Cl at	tom is
5. Among	g the given species A	A-, A+, and A	, the smallest one i	n size is	<u>_</u> .	
6. The sc	ientist who propoun	ded the mode	ern periodic law is	•		
7. Across	the period, ionic ra	dii	(increases, decrea	ses).		
8	and a	re called inne	er transition elemer	nts.		
9. The ch	ief ore of Aluminiu	m is				
10. The c	hemical name of rus	st is				
Match th	e following:					
1. 0	Galvanisation	- 1	Noble gas elements			
2. 0	Calcination	-	Coating with Zn			
	Redox reaction		Silver-tin amalgan	1		
4. 1	Dental filling		Alumino thermic p			
5. 0	Group 18 elements	-	Heating in the abso	ence of air	C	
				•		7
		0	SOLUTIONS			
Choose t	the correct answer		SOLUTIONS			
1. A sol	ution is a	mixture.				
(a) ho	omogeneous (b) he	terogeneous	(c) homogene	ous and heteroge	eneous (d)	) non homogeneous
	umber of component	•		~		
(a) 2 3. Which	(b) 3 of the following is	(c) the universal	` /			
	_	enzene	(c) Water	(d) Alcohol		
4. A solu	ition in which no mo	ore solute car	be dissolved in a	definite amount o	of solvent a	at a given temperature is
called						
, ,			rated solution	(c) Super satur	ated solution	on (d) Dilute solution
	fy the non aqueous s odium chloride in wa		glucose in water			
	opper sulphate in wa		7	di-sulphide		
6. When	pressure is increase	d at constant	temperature the so	lubility of gases	in liquid	•
		creases	(c) decreases		reaction	
		ml water is 3	6 g. If 25 g of salt	is dissolved in 10	00 ml of wa	nter how much more salt is
-	for saturation a) 12g (b) 11	(c)	16g (d) 20	Œ		
(2	(0) 11	g (c)	10g (d) 20	g		
	alcohol solution m					
	ml alcohol in 100 r		, ,	hol in 25 ml of v		
_	ml alcohol in 75 m		(d) 75 ml alco	hol in 25 ml of v	vater	
_	iescence is due to _ rong affinity to wate		affinity to water	(c) Strong hatr	ed to water	(d) Inertness to water
	•		•	(c) Strong nati	ed to water	(d) morniess to water
	ch of the following in erric chloride		c in nature? sulphate penta hyd	drate (c) Sili	ica gel	(d) none of the above
,		· / 11		, ,	C	` '
Fill in th	e blanks:					
1. The c	component present in	n lesser amou	int, in a solution is	called		
2. Exam	ple for liquid in soli	id type soluti	on is			

3. Solubility is the amount of solute dissolved in g of solvent Kindly send me your key answers to our email id - padasalai.net@gamil.com

4. Polar compounds are soluble in \_\_\_\_\_ solvents

5. Volume percentage decreases with increases in temperature because \_\_\_\_\_

## **Match the following:**

1. Blue vitriol – CaSO<sub>4</sub>.2H<sub>2</sub>O

2. Gypsum – CaO

3. Deliquescence – CuSO<sub>4</sub>.5H<sub>2</sub>O

4. Hygroscopic – NaOH

#### 10. TYPES OF CHEMICAL REACTIONS

#### **Choose the correct answer:**

- 1.  $H_{2(g)} + Cl_{29(g)} \rightarrow 2HCl_{(g)}$  is a
  - (a) Decomposition Reaction (b) Combination Reaction
  - (c) Single Displacement Reaction (d) Double Displacement Reaction
- 2. Photolysis is a decomposition reaction caused by \_
  - (a) Heat
- (b) electricity
- (c) light
- (d) mechanical energy

3. The reaction between carbon and oxygen is represented by  $C_{(s)} + O_{2(g)} \rightarrow CO_{2(g)} + Heat$ . In which of the type(s), the above reaction can be classified?

- (i) Combination Reaction
- (ii) Combustion Reaction
- (iii) Decomposition Reaction
- (iv) Irreversible Reaction
  - (a) i and ii
- (b) i and iv
- (c) i, ii and iii
- (d) i, ii and iv

4. The chemical equation

 $Na_2SO_{4(aq)} + BaCl_{2(aq)} \rightarrow BaSO_{4(s)} \downarrow + 2NaCl_{(aq)}$  represents which of the following types of reaction?

- (a) Neutralization
- (b) Combustion
- (c) Precipitation
- (d) Single displacement

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.

- (a) i and ii
- (b) ii and iii
- (c) iii and iv
- (d) i and iv

7. Which of the following is not an "element + element → compound" type reaction?

- (a)  $C_{(s)} + O_{2(g)} \rightarrow CO_{2(g)}$
- (b)  $2K_{(s)} + Br_{2(1)} \rightarrow 2KBr_{(s)}$
- (c)  $2CO_{(g)} + O_{2(g)} \rightarrow 2CO_{2(g)}$
- (d)  $4Fe(s) + 3O_{2(g)} \rightarrow 2Fe_2O_{3(s)}$

8. Which of the following represents a precipitation reaction?

- (a)  $A_{(s)} + B_{(s)} \rightarrow C_{(s)} + D_{(s)}$
- (b)  $A_{(s)} + B_{(aq)} \rightarrow C_{(aq)} + D_{(l)}$
- $(c) \ A_{(aq)} + B_{(aq)} \longrightarrow C_{(s)} + D_{(aq)}$
- (d)  $A_{(aq)} + B_{(s)} \rightarrow C_{(aq)} + D_{(l)}$

9. The pH of a solution is 3. Its [OH-] concentration is

- (a)  $1 \times 10^{-3} \,\mathrm{M}$
- (b) 3 M
- (c)  $1 \times 10^{-11} \,\mathrm{M}$
- (d) 11 M

10. Powdered CaCO<sub>3</sub> reacts more rapidly than flaky CaCO<sub>3</sub> because of \_\_\_\_\_

- (a) Large surface area
- (b) High pressure
- (c) High concentration
- (d) High temperature

#### Fill in the blanks:

1. A reaction between an acid and a base is	called
2. When zinc metal is placed in hydrochloric	acid, gas is evolved.
3. The equilibrium attained during the meltir	ng of ice is known as
4 The pH of a fruit juice is 5.6. If you add sla	aked lime to this juice, its pH
5. The value of ionic product of water at $25^{\circ}$	C is
6. The normal pH of human blood is	
7. Electrolysis is type of	reaction.
8. The number of products formed in a synth	esis reaction is
9. Chemical volcano is an example for	type of reaction.
10. The ion formed by dissolution of H <sup>+</sup> in w	ater is called

### **Match the following:**

Identify the types of reaction

lectrolysis is type of	reaction.		
he number of products formed in a synt	thesis reaction is		
hemical volcano is an example for	type	e of reaction.	
The ion formed by dissolution of H <sup>+</sup> in	water is called		
cch the following:  ntify the types of reaction			
REACTION		TYPE	
$NH_4OH_{(aq)} + CH_3COOH_{(aq)} \rightarrow CH_3COOH_{(aq)}$	$OONH_{4(aq)} + H_2O_{(l)}$	Single Displacement	
$Zn_{(s)} + CuSO_{4(aq)} \longrightarrow ZnSO_{4(aq)} + Cu_{(s)}$		Combustion	
$ZnCO_{3(s)} + {}_{Heat} \longrightarrow ZnO_{(s)} + CO_{2(g)}$		Neutralisation	
$C_2H_{4(g)} + 4O_{2(g)} \rightarrow 2CO_{2(g)} + 2H_2O_{(g)} +$	- Heat	Thermal decomposition	

# 11. CARBON AND ITS COMPOUNDS

<u>Ch</u>	oose the best ansv	wer:		10,		
1.	The molecular form	mula of an open	chain organic	compound is C	C <sub>3</sub> H <sub>6</sub> . The class of	f the compound is
	(a) alkane			yne		
	The IUPAC name of					mpound it is?
	(a) Aldehyde	(b) Carboxylic	acid (c) Ke	etone	(d) Alcohol	
	The secondary suff					
	(a) - ol	(b) – oic acid	(c) - a	l	(d) - one	
		1 1				
4. Y	Which of the folloy				_	
	(a) C <sub>3</sub> H <sub>8</sub> and C <sub>4</sub> H <sub>10</sub>			(c) C	H <sub>4</sub> and C <sub>3</sub> H <sub>6</sub>	(d) C <sub>2</sub> H <sub>5</sub> OH and C <sub>4</sub> H <sub>8</sub> OH
5. (	$C_2H_5OH + 3O_2 \rightarrow 2$	$2CO_2 + 3H_2O$ is a	l			
	(a) Reduction	of ethanol	(b) Co	ombustion of et	thanol	
	(c) Oxidation (	of ethanoic acid	(d) Ox	xidation of etha	ınal	
6. I	Rectified spirit is an	n aqueous solutio	on which conta	ains about	of ethanol	
	(a) 95.5 %					
7.	Which of the follow	, ,			. ,	
abla	(a) Carboxylic acid	ds	(b) Ethers	(c) E	sters	(d) Aldehydes
8.	TFM in soaps repre	esents	content in	soap		
	(a) Mineral		(b) vitamin	(c) fa	itty acid	(d) carbohydrate
9. V	Which of the follow	ing statements is	wrong about	detergents?		
	(a) It is a sodium s	alt of long chain	fatty acids	(b) It is sodiu	ım salts of sulpho	onic acids
	(c) The ionic part i	in a detergent is -	-SO <sub>3</sub> Na	(d) It is effect	ctive even in hard	l water.
Fill	in the hlanks•					

1. An atom or a group of atoms which is responsible for chemical characteristics of an organic compound is called \_\_\_\_\_Kindly send me your key answers to our email id - padasalai.net@gamil.com

2. The general molecular formula of alkynes is	
3. In IUPAC name, the carbon skeleton of a compound is represented by (root word	l / prefix / suffix)
4. (Saturated / Unsaturated) compounds decolourize bromine water.	
5. Dehydration of ethanol by conc. Sulphuric acid forms (ethene/ ethane)	
6. 100 % pure ethanol is called	
7. Ethanoic acid turns litmus to	
8. The alkaline hydrolysis of fatty acids is termed as	. 4
9. Biodegradable detergents are made of(branched / straight) chain hydrocarbons.	
Match the following:	
watch the following.	
1. Functional group Benzene  -OH	
2. Heterocyclic Potassium stearate	7
3. Unsaturated Alcohol	
4. Soap Furan	
5. Carbocyclic Ethene	
1. Casparian strips are present in the of the root.  (a) cortex (b) pith (c) pericycle (d) endod  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 (c)Acetyl CoA (d) Pyruvate  5. Kreb's cycle takes place in  (a) Chloroplast (b) mitochondrial matrix (c) stomata (d) inner mitochondrial n	er e
6. Oxygen is produced at what point during photosynthesis?	d) All of these
Fill in the blanks:  1. Cortex lies between  2. Xylem and phloem occurring on the same radius constitute a vascular bundle called  3. Glycolysis takes place in  4. The source of O <sub>2</sub> liberated in photosynthesis is	·
is ATP factory of the cells	
Match the following:	
<ol> <li>Amphicribal - Dracaena</li> <li>Cambium - Translocation of food</li> <li>Amphivasal - Fern</li> <li>Xylem - Secondary growth</li> <li>Phloem - Conduction of water</li> </ol>	

#### 13. STRUCTURAL ORGANISATION O F ANIMALS

#### **Choose the correct answer:**

1. In leech locomotion is performed by						
(a) Anterior sucker	(b) Posterior su	ucker (c) Setae	(d) None of the above			
2. The segments of leech are k	known as					
(a) Metameres (somite	es) (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 syst	tem (d) Respiratory system			
4. The brain of leech lies above	re 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	animals.					
(a) Cold blooded	(b) Warm blooded	(c) Poikilothermic	(d) All the above			
7. The animals which give bir	th to young ones are		35			
(a) Oviparous	(b) Viviparous	(c) Ovoviviparous	(d) All the above			
Fill in the blanks:						
1. The posterior sucker is form	ned by the fusion of the	segmen	ts.			
2. The existence of two sets of	f teeth in the life of an ar	nimal is called	dentition.			
3. The anterior end of leech has a lobe-like structure called						
4. The blood sucking habit of	leech is known as					
5 separate ni	-					
7 spinal nerv	ves are present in rabbit.					

### Match columns I, II and III correctly:

Organs	Membranous Covering	Location	
Brain	pleura	abdominal cavity	
Kidney	capsule	mediastinum	
Heart	meninges	enclosed in thoracic cavity	
Lungs	pericardium	cranial cavity	

#### 14. TRANSPORTATION IN PLANTS AND CIRCULATION IN ANIMALS

Choose the corre	ct answer.			
~				
1. Active transport				
(a) movement (c) it is an uph	of molecules from lower ill task (d) all of the	er to higher concentrat ne above	ion (b) ex	penditure of energy
2. Water which is	absorbed by roots is trai	nsported to aerial parts	s of the plant through	1
(a) Cortex	(b) epidermis	(c) phloem	(d) xylem	
C I	ation there is loss of		(1)	

(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 Kindly send me your key answers to our email id - padasalai.net@gamil.com

- - (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) musclKireapptorndraine vour ket are superstepinal condimuse cada ada alai.net@gamil.com

4. Dendrites transmit impulse c (a) away from, away from (c) towards,towards	•	way from	
5. The outer most of the three c (a) arachnoid membrane	cranial meninges is (b) piamater	(c) duramater	(d) myelin sheath
6. There are pairs of cranial net (a) 12, 31 (b) 31,			2, 21
7. The neurons which carries in (a) afferent neurons	npulse from the central (b) association neuron		
8. Which nervous band connec (a) thalamus (b) hype		nispheres of brain? pus callosum	(d) pons
9. Node of Ranvier is found in (a) muscles (b) axon	ns (c) dendrites	(d) cyton	
10. Vomiting centre is located (a) medulla oblongata	in (b) stomach	(c) cerebrum	(d) hypothalamus
11. Nerve cells do not possess (a) neurilemma	(b) sarcolemma	(c) axon	(d) dendrites
12. A person who met with an following part of brain is support	accident lost control of	, ,	ater balance, and hunger. Which of the (d) hypothalamus
Fill in the blanks:			
1 is the longest cell	in our body.	600	
2. Impulses travel rapidly in	neurons.		
3. A change in the environment	t that causes an animal	to react is called	
4 carries the impu	ulse towards the cell bo	dy.	
5. The two antagonistic compo	nent of autonomic nerv	ous system are	and
6. A neuron contains all cell or	ganelles except	<u></u> .	
7 maintains the c	onstant pressure inside	the cranium.	
8 and	_ increases the surface	area of cerebrum.	
9. The part of human brain whi	ch acts as relay center	is	
Match the following:			
Column 1	Column II		
1. Nissil's granules	Forebrain		
2. Hypothalamus	Peripheral Nervous s	system	
3. Cerebellum	Cyton		
4. Schwann cell	Hindbrain		
16. PL	ANT AND ANIMAL	HORMONES	
Choose the correct answer:			

1. Gibberellins cause:

(a) Shortening of genetically tall plants

(b) Elongation of dwarf plants

(c) Promotion of rooting

(d) yellowing of young leaves

2. The hormone which has positive effect on apical dominance is:

(a) Cytokinin

(b) Auxin

(c) Gibberellin

(d) Ethylene

3. Which one of the following hormones is naturally not found in plants?

(a) 2, 4-D Kindly send the your key answers to our email it - padasalai.net@gamil.com

4.	Avena coleoptile test was (a) Darwin (b) I	s conducted by N. Smit (c) Paal	(d) F.W. Went			
5	, ,		they are sprayed with			
٥.		_	Gibberellins (d) Etl			
	(0)	Cytomin (c)	(a) Zu			
6.	LH is secreted by					
	(a) Adrenal gland	(b) Thyroid gland	(c) Anterior pituitary	(d) Hypothalamus.		
7.	Identify the exocrine glan	nd				
	(a) Pituitary gland	(b) Adrenal gland	(c) Salivary gland	(d) Thyroid gland		
8.	Which organ acts as both	exocrine gland as wel	l as endocrine gland?			
	(a) Pancreas	(b) Kidney	(c) Liver	(d) Lungs		
9.	Which one is referred as	"Master Gland"?		X A		
	(a) Pineal gland	(b) Pituitary gland	(c) Thyroid gland	(d) Adrenal gland		
Fi	ill in the blanks:					
1.	causes cell	elongation, apical dor	ninance and prevents absci	ssion.		
				acceleration of fruit ripening.		
	causes stor		C			
			14.			
	Gibberellins induce stem					
5.	The hormone which has a	negative effect on apic	al dominance is			
6.	Calcium metabolism of the	he body is controlled b	у			
7.	In the islets of Langerhar	ns, beta cells secrete				
8.	The growth and function	s of thyroid gland is co	ontrolled by			
		• •	children leads to	· •		
N	Match Column I with Co	lumns II and III:				
			Y			
	Column I	Column II	Column III			
	Auxin	Gibberella fujikuroi	Abscission			
	Ethylene	Coconut milk	Internodal elongation			
	Abscisic acid	Coleoptile tip	Apical dominance			
	Cytokinin	Chloroplast	Ripening			
	Gibberellins	Fruits	Cell division			

# Match the following hormones with their deficiency states:

Hormones	Disorders
a) Thyroxine	- Acromegaly
b) Insulin	- Tetany
c) Parathormone	- Simple goitre
d) Growth hormone	- Diabetes insipidus
e) ADH	- Diabetes mellitus

# 17. REPRODUCTION IN PLANTS AND ANIMALS

# **Choose the correct answer:**

1. The plant which	propagates with the	help of its leaves is	•	
(a) Onion	(b) Neem	(c) Ginger	(d) Bryophyllum	
Kind	lly send me your ke	v answers to our email	id - nadasalai.net@gamil.co	m

2. Asexual reprodu (a) Amoeba	ction takes place thro (b) Yeast	ugh budding in (c) Plasmodium		ia
• •	in the formation of _ (b) Conidia	• •	(d) Chlam	
4. The essential par	rts of a flower are	·		
(a) Calyx and (	Corolla (t	o) Calyx and Androeci	lum	
(c) Corolla and	Gynoecium (d	d) Androecium and Gy	/noecium	
5. Anemophilous f	lowers have	·		
(a) Sessile stig	ma (b) Small smooth	stigma (c) Colo	ored flower (d)	Large feathery stigma
•	angiosperms are forn	ned by the division of ative cell (c) Micro	·	× .<
• •	ploid (to ce hormones (co	b) They give rise to go d) They are formed from trms are stored, get con	om gonads	ure is known as
(a) Epididymis	-	efferentia (c) Vas		Seminiferous tubules
9. The large elonga (a) Primary gen	_	nutrition to developing i cells (c) Leyo		) Spermatogonia
10 Estrogen is secr	reted by			
(a) Anterior pit	tuitary (b) Prima	ry follicle (c) Graf	ffian follicle (d)	Corpus luteum
11. Which one of to (a) Copper – T	he following is an IUC (b) Oral p		phragm (d)	) Tubectomy
Fill in the blanks:				
1 The embryo sac	in a typical dicot at th	e time of fertilization	ic	
•	n the ovary develops i			
	ices asexually by			
-	in hum:	V V		
		s at about	day of fertiliz	zation
		n the mammary gland		
7. Prolactin is a ho	rmone produced by _	·		
Match the follow	ing:			
	Column 1	Column 2	]	
2	Fission	Spirogyra	1	
O >	Budding	Amoeba		
	Fragmentation	Yeast		

### Match the following terms with their respective meanings:

1. Parturition - Duration between pregnancy and birth

2. Gestation - Attachment of zygote to endometrium

3. Ovulation - Delivery of baby from uterus

4. Implantation - Release of egg from Graafian follicle

# 18. HERIDITY

# **Choose the correct answer:**

1. According to Meno	del alleles have the follo	wing ch	aracter			
(a) Pair of genes	(b) Responsible for cl	naracter	(c) Production of gan	netes (d)	Recessive factors	
2. 9: 3: 3: 1 ratio is o	due to					
(a) Segregation	(b) Crossing over	(c) Ind	dependent assortment	(d) Recessi	veness	
3. The region of the c	chromosome where the s	spindle f	ibres get attached durin	g cell division	ı ,	
(a) Chromomere	(b) Centrosome	(c) Ce	entromere	(d) Chromo	onema	
4. The centromere is	found at the centre of th	e	chromos	ome.		
(a) Telocentric	` '		(c) Sub-metacentric	(d)	Acrocentric	
	units form the backbo					
(a) 5 carbon sugar	· · · •		trogenous bases	(d) Sugar p	hosphate	
	are joined together by _ (b) DNA polymerase			(d) DNA li	7000	
• •	comosomes found in hun	` /	1	(u) DNA II	zase	
	somes and 1 pair of allo			Lallosome		
	(d) 46 pairs autosome			T difosome		
8. The loss of one or	more chromosome in a	ploidy is	s called	1		
(a) Tetraploidy	(b) Aneuploidy	(c) Eu	ploidy (d) p	olyploidy		
ESILS About bloods						
Fill in the blanks:						
	asting character (traits) of		el are called	··		
	n of a gene is called e structures found in the		of each cell is called			
	wo chain		yor cach cen is cance _	·•		
	nge in the amount or the		re of a gene or a chrom	osome is calle	ed	·
<b>Match the followin</b>	g:					
		<b>\</b>				
1. Autosomes	- Trisomy	21				
2. Diploid condition						
3. Allosome	- 22 pair of	f chromo	osome			
4. Down's syndron						
5. Dihybrid ratio	- 23rd pair o	of chrom	nosome			
	19. ORIGIN AND	EVOLU	UATION OF LIFE			
Choose the correct	answer:					
1. Biogenetic law star	tes that					
•	l phylogeny go together	– (b)	Ontogeny recapitulates	phylogeny		
	capitulates ontogeny	` '	There is no relationship		logeny and ontoge	eny
2. The 'use and disus	e theory' was proposed	by	•			
(a) Charles Darw	in (b) Ernst Hae	ckel	(c) Jean Baptiste Lan	narck (d)	Gregor Mendel	
3. Paleontologists dea	al with					
(a) Embryologica <b>Kindly</b>	al evidences (b) For send me your key and	ssil evic	dences (c) Vestigial o o our email id - padas	organ evidenc salai.net@ga	es (d) All the abo mil.com	ove

4. The best way of direct dating	_	•	
(a) Radio-carbon method (	•	od (c) Potassium-a	argon method (d) Both (a) and (c)
5. The term Ethnobotany was co	•	( ) D 11 D	(D.W. 1. W.
(a) Khorana (1	b) J.W. Harsbberger	(c) Ronald Ros	s (d) Hugo de Vries
Fill in the blanks:			
1. The characters developed by called	the animals during th	eir life time, in respon	se to the environmental changes are
2. The degenerated and non-fund	ctional organs found ir	n an organism are called	ı
<ul><li>3. The forelimb of bat and huma</li><li>4. The theory of natural selection</li></ul>	=	=	
Match the following:			52
Column A	Colum	n B	15
1. Atavism	- caudal vertebra	ae and vermiform appe	ndix
2. Vestigial organs	- a forelimb of a	cat and a bat's wing	
3. Analogous organs	- rudimentary ta	il and thick hair on the	body
4. Homologous organs	- a wing of a bat	and a wing of an insec	t
5. Wood park	- radiocarbon dat	ting	
6. W.F. Libby	- Thiruvakkarai		
_	XX	<i></i>	
	20. BREEDING ANI	) BIOTECHNOLOG	Y
<b>Choose the correct answer:</b>	2		
<ol> <li>Which method of crop improv         <ul> <li>(a) clonal selection</li> </ul> </li> <li>Pusa Komal is a disease resist</li> </ol>	b) mass selection	(c) pureline selection	experienced? (d) hybridisation
		(c) cow pea for disease resistance a	(d) maize gainst rust pathogens is a variety of
(a) chilli	b) maize	(c) sugarcane	(d) wheat
4. The miracle rice which saved (a) IR 8		elebrated its 50th birth (c) Atomita 2	day is (d) Ponni
5. Which of the following is used	d to produce products	useful to humans by bi	otechnology techniques?
(a) enzyme from organism	(b) live organis	m (c) vitamins	(d) both (a) and (b)
6. We can cut the DNA with the	help of		
(a) scissors (b) restriction	ction endonucleases	(c) knife	(d) RNAase
7. rDNA is a			
(a) vector DNA (b) circula	ar DNA (c) recombin	ant of vector DNA and	desired DNA (d) satellite DNA
9. DNA fingerprinting is based of (a) single stranded (b)		ntifyingse (c) polymorphic	quences of DNA (d) repititive

10. Organisms with modified endogenou (a) transgenic organsims (b) genet	•			(d) both a and b	
	·	, ,			
11. In a hexaploid wheat ( $2n = 6 \times 42$	•				
(a) $n = 7$ and $x = 21$ (b) $n = 2$	1 and $x = 21$	(c) $n =$	/ and $x = /$	(d) $n = 21$ and $x = 7$	
Fill in the blanks:					
1. Economically important crop plants v	vith superior qu	ality are raised	by		
2. A protein rich wheat variety is					
3is the chemical used for o	loubling the ch	romosomes.			,
4. The scientific process which produces	s crop plants en	riched with des	sirable nutrients	are called	
<ol><li>Rice normally grows well in alluvial grows well in saline soil.</li></ol>	soil, but	is a rice	variety produce	ed by mutation breeding tha	ıt
6 technique made it possib	ole to geneticall	y engineer livii	ng organism.		
7. Restriction endonucleases cut the DN				57	
8. Similar DNA fingerprinting is obtained		-			
9 cells are undifferentiated					
10. In gene cloning the DNA of interest		a		,	
Match the following:					
Column A	Column B				
1. Sonalika - F	Phaseolus mung	90			
2. IR 8 - S	Sugarcane				
3. Saccharum - S	Semi-dwarf who	eat			
4. Mung No. 1 - C	Ground nut				
5. TMU – 2 - S	Semi-dwarf Ric	e			
6. Insulin - F	Bacillus thuring	ienesis			
7. Bt toxin - E	Beta carotene				
8. Golden rice - f	irst hormone pr	oduced using r	DNA technique		
21. HEA	ALTH AND D	ISEASES			
Choose the correct answer:					
1. Tobacco consumption is known to sti  (a) Nicotine  (b) Tannic acid			_	t causing this could be	
(a) Nicotine (b) Tannic acid 2. World 'No Tobacco Day' is observed	(c) Curc	umm	(d) heptin		
(a) May 31 (b) June 6	on (c) Apri	1 22	(d) October 2		
3. Cancer cells are more easily damaged			` ´	are	
(a) Different in structure (b) Non		(c) Starved mut		lergoing rapid division	
A 1771: 1 4 4 4 5 6 4 4 1 4 1 4 1	. 1 1 1	. 0			
4. Which type of cancer affects lymph n (a) Carcinoma (b) Sarco	-	(c) Leukemia	(d) Lym	nphoma	
5. Excessive consumption of alcohol lea (a) Loss of memory (b) Cirrh	ds to osis of liver (	(c) State of hall	ucination	(d) Supression of brain	
6. Coronary heart disease is due to					
(a) <i>Streptococci</i> bacteria (b) Inflammation of pericardium (c) Weakening of heart valves (d) Insufficient blood supply to heart muscles					
. ,	,	11 /			

9.	Green house effect refers		7	(1) - 1(1 - 1)	C . 1	(1)	C 1.
10	(a) cooling of earth	(b) trapping of UV	•		-	(d) warming of	earth
	A cheap, conventional, (a) hydropower	(b) solar energy				al energy	
11.	. Global warming will cau (a) raise in level of ocea		g of glacier	s (c) si	nking of isla	ands (d) all of t	hese
12	. Which of the following	statement is wrong wi	th respect	to wind energy			
	(a) wind energy is a reno	••					
	(b) the blades of wind m	<u>-</u>	-	electric motor			
	(c) production of wind e			C '1 C 1			
	(d) usage of wind energy	y can reduce the consi	umption of	Tossii Tueis.		A	
Fil	ll in the blanks:					~ «	
1.	Deforestation leads to _	in rai	nfall.				
2.	Removal of soil particle	s from the land is call	ed	·			
	Chipko movement is ini	_					
	is a bi		milnadu.				
	Tidal energy is					<b>)</b> `	
	Coal, petroleum and nat	_					
7.	is the	most commonly used	fuel for the	e production of	electricity.		
M	atch the following:						
	1. Soil erosion	<ul> <li>energy saving</li> </ul>					
	2. Bio gas	- acid rain					
	3. Natural gas		ratation				
	4. Green house gas		- 4				
	5. CFL bulbs		argy				
	6. Wind	- cO <sub>2</sub> - non-renewable	anaray				
	7. Solid waste	- lead and heavy	177				
	7. Sond waste	- icad and neav	y frictars				
		23. VISUAL CO	MMUNIC	CATION			
Cł	hoose the best answer:	< F.					
1.	Which software is used						
	a) Paint b) Pl		rd	d) Scratch			
2.	All files are stored in th						
2	a) Folder b) bo		d) sc	anner			
3.		-	_4	4)			
1	a) Script area b) B Which is used to edit pro		stage	d) sprite			
т.			stage	d) sprite			
5.	Where you will create ca		suge	d) sprite			
	a) Block palette	b) Block menu	c) Sci	ript area	d) sprite		
) / } /		,	,,,,,	1	, <b>r</b>		
M:	atch the Following:						
	1. Script Area	- Type notes					
	2. Folder	- Animation soft	ware			(99)	
	<ul><li>3. Scratch</li><li>4. Costume editor</li></ul>	<ul><li>Edit programs</li><li>Store files</li></ul>					
	5. Notepad	- Build Scripts					