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1. LAWS OF MOTION

Choose the correct answer:

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) 9.8×10^4 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 ____kg

(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

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
 - (a) A (b) B (c) C (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 colored 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

Kindly Send me Your Key Answer to Our email id - Padasalai.net@gmail.Com

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- 6. Power of a lens is -4D, then its focal length is (c) -0.25 m (d) - 2.5 m(a) 4m(b) -40m7. In a myopic eve, 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 eve 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?

(c) VB < VG < VR(d) VB < VG > VR

3. THERMAL PHYSICS

Choose the correct answer:

1. The value of universal gas constant

(a) 3.81 mol⁻¹ K⁻¹ (c) 1.38 mol⁻¹ K⁻¹

(b) 8.03 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 (d) none of the above (c) zero

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 $dA \leftarrow B A \rightarrow C B \leftarrow C$

Ans: (a)

4. ELECRTICITY

Choose the best answer:

1. Which of the following is correct?

- (a) Rate of charge 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.

(b) joule

2. SI unit of resistance is (a) mho

(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

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5.ACOUSTICS Choose the correct answer:	6. NUCLEAR PHYSICS Choose the correct answer:	
 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 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 is 	 Man-made radioactivity is also known as	
 (a) 330 m s⁻¹ (b) 660 m s⁻¹ (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. 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 	
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) $320 / \sqrt{2} \text{ m s}^{-1}$ 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	 (a) (i) is correct (b) (ii) and (iii) are correct (c) (i) & (iv) are correct (d) (ii) & (iv) are correct 5Isotope 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 	
(a) 17 m (b) 20 m (c) 25 m (d) 50 m	 (b) Iron (c) Lead (d) Aluminium 	

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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 (c) (iv) only correct (d) (iii) & (iv) are correct (a) Nuclear fission(b) α – decay (c) Nuclear fusion (d) β - decay 10. In the nuclear reaction 6X12 α decay ZYA, the value of A & Z. (a) 8, 6 (b) 8, 4 (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 not controlled iii. The 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 7. ATOMS AND MOLECULES Choose the best answer: 1. Which of the following has the smallest mass? (a) 6.023 × 10 ²³ atoms of He (b) 1 atom 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 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 C-12 atom (c) 1/12th of the mass of a C - 12 atom (d) Mass of 0 - 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 gram of C - 12 contains Avogadro's number of atoms. (d) One mole of electrons stands for 6.023×10^{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) 6.023×10^{23} (b) 6.023×10^{23}

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8. PERIODIC CLASSIFICATION OF ELEMENTS	9. SOLUTIONS	
Choose the best answer: 1. The number of periods and groups in the periodic table are (a) 6, 16 (b) 7, 17 (c) 8, 18 (d) 7, 18 2. The basis of modern periodic law is (a) atomic number (b) atomic mass (c) isotopic mass (d) number of neurons 3group contains the member of halogen family. (a) 17th (b) 15th (c) 18th 4is a relative periodic property (a) Atomic radii (b) ionic radii (c) electron affinity (d) electro negativity 5. Chemical formula of rust is (a) FeO.xH2O (b) FeO4.xH2O (c) Fe2O3.xH2O (d) sulphurising agent (b) reducing agent (c) hydrogenating agent (d) sulphurising agent (a) Oxidizing agent (d) sulphurising agent (c) hydrogenating the surface of metal with a thin layer of zinc is called (a) Painting (b) Ne (c) Ar (b) Ne (c) Ar (d) Kr 9. Neon shows zero electron affinity due to (a) Stable configuration of electrons (c) Reduced size (d) increased density 10	Choose the correct answer: 1. A solution is a mixture. (a) homogeneous (b) heterogeneous (c) homogeneous and heterogeneous (d) non homogeneous 2. The number of components in a binary solution is (a) 2 (b) 3 (c) 4 (d) 5 3. Which of the following is the universal solvent? (a) Acctone (b) Benzene (c) Water (d) Alcohol 4. A solution in which no more solute can be dissolved in a definite amount of solvent at a given temperature is called (a) Saturated solution (b) un saturated solution (c) Super saturated solution (d) Dilute solution (c) Copper sulphate in water (b) glucose in water (c) Copper sulphate in water (d) sulphur in carbon-di-sulphide 6. When pressure is increased at constant temperature the solubility of gases in liquid	

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 9. Deliquescence is due to	 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
10. TYPES OF CHEMICAL REACTIONS	
Choose the correct answer:	 (a) i, ii and iii (b) i, ii and iv (c) ii, iii and iv (d) i, iii and iv
 H2(g) + Cl29(g) → 2HCl(g) is a (a) Decomposition Reaction (b) Combination Reaction (c) Single Displacement Reaction (d) Double Displacement Reaction 	 6. A single displacement reaction is represented by X(s) + 2HCl(aq) → XCl2(aq) + H2(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 iy (d) i and iy
 2. Photolysis is a decomposition reaction caused by (a) Heat (b) electricity (c) light (d) mechanical energy 	7. Which of the following is not an "element + element \rightarrow compound" type reaction?
 3. The reaction between carbon and oxygen is represented by C(s) + O2(g) → CO2(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) $C(s) + O2(g) \rightarrow CO2(g)$ (b) $2K(s) + Br2(l) \rightarrow 2KBr(s)$ (c) $2CO(g) + O2(g) \rightarrow 2CO2(g)$ (d) $4Fe(s) + 3O2(g) \rightarrow 2Fe2O3(s)$ 8. Which of the following represents a precipitation reaction?
 (a) i and ii (b) i and iv (c) i, ii and iii (d) i, ii and iv 4. The chemical equation Na2SO4(aq) + BaCl2(aq) → BaSO4(s)↓ + 2NaCl(aq) represents which of the following types of 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) $A(aq) + B(s) \rightarrow C(aq) + D(l)$
(a) Neutralization(b) Combustion(c) Precipitation(d) Single displacement	9. The pH of a solution is 3. Its [OH–] concentration is (a) 1×10^{-3} M (b) 3 M (c) 1×10^{-11} M (d) 11 M

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13. STRUCTURAL ORGANISATION O F ANIMALS Choose the correct answer: 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) (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 (c) Reproductive system (d) Respiratory system (d) Crop 5. 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 (a) Cold blooded (b) Warm blooded (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	 2. Water which is absorbed by roots is transported to aerial parts of the plant through (a) Cortex (b) epidermis (c) phloem (d) xylem 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 	
14. TRANSPORTATION IN PLANTS AND CIRCULATION IN ANIMALS	loss. Which blood group the doctor should effectively use for transfusion in this condition?	
 Choose the correct answer: 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 	 (a) O group (b) AB group (c) A or B group (d) all blood group (e) A or B group (f) all blood group (f) all blood group (g) all blood group (h) all blood group <li< td=""></li<>	

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 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 15. NERVOUS SYSTEM Choose the correct answer: a) retina of eye (b) cerebral cortex (c) embryo (d) respiratory epithelium Site for processing of vision, hearing, memory, speech, intelligence and thought is (a) Kidney (b) ear (c) brain (d) lungs 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 Dendrites transmit impulse cell body and axon transmit impulse cell body. (a) away from, away from (b) iawards, away from (c) towards, towards (d) away from, towards The outer most of the three cranial meninges is (a) arachnoid membrane (b) jain terves. (a) 12, 21 The neurons which carries impulse from the central nervous system to the muscle fibre. (a) afferent neuron (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 9. Node of Ranvier is found in (a) muscles (b) axons (c) dendrites (d) cyton 10. Vomiting centre is located in (a) medulla oblongata (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 accident lost control of body temperature, water balance, and hunger. Which of the following part of brain is supposed to be damaged? (a) Medulla oblongata (b) cerebrum (c) pons (d) hypothalamus 16. PLANT AND ANIMAL HORMONES Choose the correct answer: (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 (b) GA3 (c) Gibberellin (d) IAA 4. Avena coleoptile test was conducted by (a) Darwin (b) N. Smit (c) Paal (d) F.W. Went

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 5. To increase the sugar production in sugarcanes they are sprayed with (a) Auxin (b) Cytokinin (c) Gibberellins (d) Ethylene 6. LH is secreted by (a) Adrenal gland (b) Thyroid gland 	 5. Anemophilous flowers have (a) Sessile stigma (b) Small smooth stigma (c) Colored flower (d) Large feathery stigma 6. Male gametes in angiosperms are formed by the division of 	
 (c) Anterior pituitary (d) Hypothalamus. 7. Identify the exocrine gland (a) Pituitary gland (b) Adrenal gland (c) Salivary gland (d) Thyroid gland 8. Which organ acts as both exocrine gland as well as endocrine 	 (a) Generative cell (b) Vegetative cell (c) Microspore mother cell (d) Microspore 7. What is true of gametes? (a) They are diploid (b) They give rise to gonads (b) They are formed from gonads	
 gland? (a) Pancreas (b) Kidney (c) Liver (d) Lungs 9. Which one is referred as "Master Gland"? (a) Pineal gland (b) Pituitary gland (c) Thyroid gland (d) Adrenal gland 17. DEDRODUCTION IN DLANTS AND ANIMALS	 8. A single highly coiled tube where sperms are stored, get concentrated and mature is known as (a) Epididymis (b) Vasa efferentia (c) Vas deferens (d) Seminiferous tubules 9. The large elongated cells that provide nutrition to developing sperms are (a) Primary germ cells (b) Sertoli cells (c) Levdig cells (d) Spermatogonia 	
17. KET KODOC FIGHTINT LARTY AND	 10. Estrogen is secreted by (a) Anterior pituitary (b) Primary follicle (c) Graffian follicle (d) Corpus luteum 11. Which one of the following is an IUCD? (a) Copper – T (b) Oral pills (c) Diaphragm (d) Tubectomy 	
 3. Syngamy results in the formation of (a) Zoospores (b) Conidia (c) Zygote (d) Chlamydospores 4. The essential parts of a flower are (a) Calyx and Corolla (b) Calyx and Corolla (b) Calyx and Androecium (c) Corolla and Gynoecium (d) Androecium and Gynoecium 	18. GENETICS Choose the correct answer: 1. According to Mendel alleles have the following character (a) Pair of genes (b) Responsible for character (c) Production of gametes (d) Recessive factors 	

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 2. 9: 3: 1 ratio is due to (a) Segregation (b) Crossing over (c) Independent assortment (d) Recessiveness 	19. ORIGIN AND EVOLUATION OF LIFE <u>Choose the correct answer:</u>
 3. The region of the chromosome where the spindle fibres get attached during cell division (a) Chromomere (b) Centrosome (c) Centromere (d) Chromonema 4. The centromere is found at the centre of the	 Biogenetic law states that (a) Ontogeny and phylogeny go together (b) Ontogeny recapitulates phylogeny (c) Phylogeny recapitulates ontogeny (d) There is no relationship between phylogeny and ontogeny
 (a) Telocentric (b) Metacentric (c) Sub-metacentric (d) Acrocentric 5. Theunits form the backbone of the DNA. (a) 5 carbon sugar (b) Phosphate (c) Nitrogenous bases (d) Sugar phosphate 6. Okasaki fragments are joined together by (a) Helicase (b) DNA polymerase (c) RNA primer (d) DNA ligase 7. The number of chromosomes found in human beings is (a) 22 pairs of autosomes and 1 pair of allosomes. (b) 22 autosomes and 1 allosome 	 2. The 'use and disuse theory' was proposed by (a) Charles Darwin (b) Ernst Haeckel (c) Jean Baptiste Lamarck (d) Gregor Mendel 3. Paleontologists deal with (a) Embryological evidences (b) Fossil evidences (c) Vestigial organ evidences (d) All the above 4. The best way of direct dating fossils of recent origin is by (a) Radio-carbon method (b) Uranium lead method (c) Potassium-argon method (d) Both (a) and (c) 5. The term Ethnobotany was coined by (a) Khorana (b) J.W. Harsbberger (c) Ronald Ross (d) Hugo de Vries
 (d) 46 pairs autosomes and 1 pair of allosomes. 8. The loss of one or more chromosome in a ploidy is called (a) Tetraploidy (b) Aneuploidy (c) Euploidy (d) polyploidy 	20. BREEDING AND BIOTECHNOLOGY Choose the correct answer: 1. Which method of crop improvement can be practised by a farmer if he is inexperienced? (a) clonal selection (b) mass selection (c) pureline selection (d) hybridisation 2. Pusa Komal is a disease resistant variety of

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3. Himgiri developed by hybridisation and selection for disease resistance against rust pathogens is a variety of	21. HEALTH AND DISEASES
(a) chilli (b) maize (c) sugarcane (d) wheat	<u>Choose the correct answer:</u>
 4. The miracle rice which saved millions of lives and celebrated its 50th birthday is	 Tobacco consumption is known to stimulate secretion of adrenaline. The component causing this could be (a) Nicotine (b) Tannic acid (c) Curcumin (d) heptin World 'No Tobacco Day' is observed on
5. Which of the following is used to produce products useful to humans by	(a) May 31 (b) June 6 (c) April 22 (d) October 2
biotechnology techniques? (a) enzyme from organism (c) vitamins (d) both (a) and (b) (e) We can out the DNA with the help of	 3. Cancer cells are more easily damaged by radiations than normal cells because they are (a) Different in structure (b) Non dividing (c) Starved mutation (d) Undergoing rapid division
6. We can cut the DNA with the help of (a) scissors (b) restriction endonucleases (c) knife (d) RNAase	 4. Which type of cancer affects lymph nodes and spleen? (a) Carcinoma (b) Sarcoma (c) Leukemia (d) Lymphoma 5. Exercise consumption of classical leads to
 7. rDNA is a (a) vector DNA (b) circular DNA (c) recombinant of vector DNA and desired DNA (d) satellite DNA 	(a) Loss of memory(b) Cirrhosis of liver(c) State of hallucination(d) Supression of brain6. Coronary heart disease is due to
 8. DNA fingerprinting is based on the principle of identifying sequences of DNA (a) single stranded (b) mutated (c) polymorphic (d) repititive 9. Organisms with modified endogenous gene or a foregin gene are also 	 (a) <i>Streptococci</i> bacteria (b) Inflammation of pericardium (c) Weakening of heart valves (d) Insufficient blood supply to heart muscles
 (a) transgenic organsims (b) genetically modified (c) mutated (d) both a and b 	 7. Cancer of the epithelial cells is called (a) Leukemia (b) Sarcoma (c) Carcinoma (d) Lipoma 8. Metastasis is associated with
 10. In a hexaploid wheat (2n = 6 x = 42) the haploid (n) and the basic(x) number of chromosomes are (a) n = 7 and x = 21 (b) n = 21 and x = 21 (c) n = 7 and x = 7 (d) n = 21 and x = 7 	 (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

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10. Where does alcohol effect immediately after drinking?(a) eyes (b) auditory region (c) liver (d) central nervous system	10. A cheap, conventional, commercial and inexhaustible source of energy is
 22. ENVIRONMENTAL MANAGEMENT Choose the correct answer: Which of the following is / are a fossil fuel? Tar ii. Coal iii. Petroleum i only (b) i and ii (c) ii and iii (d) i, ii and iii What are the steps will you adopt for better waste management? Reduce the amount of waste formed (b) reuse the waste recycle the waste 	 (a) hydropower (b) solar energy (c) wind energy (d) thermal energy 11. Global warming will cause (a) raise in level of oceans (b) melting of glaciers (c) sinking of islands (d) all of these 12. Which of the following statement is wrong with respect to wind energy (a) wind energy is a renewable energy (b) the blades of wind mill are operated with the bala of electric
 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) deformation (b) efformation 	 (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 energy can reduce the consumption of fossil fuels.
 (a) deforestation (b) anorestion (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	23. VISOAL COMMUNICATION Choose the best answer: 1. Which software is used to create animation? a) Paint b) PDF c) MS Word d) Scratch 2. All files are stored in the
 (a) no rain fall (b) low rainfall (c) rain fall is high (d) none of these 7. An inexhaustible resources is (a) wind power (b) soil fertility (c) wild life (d) all of the above 	 a) Folder b) box c) Pai d) scanner 3. Which is used to build scripts? a) Script area b) Block palette c) stage d) sprite 4. Which is used to edit programs?
 8. Common energy source in village is (a) electricity (b) coal (c) biogas 9. Green house effect refers to 	a) Inkscape b) script editor c) stage d) sprite 5. Where you will create category of blocks? a) Block palette b) Block menu c) Script area d) sprite
(a) cooling of earth(b) trapping of UV rays(c) cultivation of plants(d) warming of earth	******