TIRUVANNAMALAI DISTRICT - 2025 **MUNICIPAL HIGH SCHOOL -GIRITHARAN PETTAI**

10 TH- SCIENCE

 $\underline{PHYSICS - CHEMISTRY - (UNIT 1 - 11)}$ JO.VANITHA.M.Sc.,M.A.,M.Phil.,B.Ed., 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 Y-axis and time on X-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 b) Nkg-1 c) Nm2kg-1 a) cms-1 d) cm2s-2 7) One kilogram force equals to b) 9.8 × 104 N c) 98 × 104 dyne d) 980 dyne a) 9.8 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 d) increase by 300% a) decrease by 50% b) increase by 50% c) decrease by 25% 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 11) The refractive index of four substances A, B, C and D are 1.31, 1.43, 1.33, 2.4 respectively. c) C The speed of light is maximum in a) A b) B d) D 12) 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

13) 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 14) Magnification of a convex lens is a) Positive b) negative c) either positive or negative d) zero 15) A convex lens forms a real, diminished point sized image at focus. Then the position of the object is a) focus b) infinity c) at 2f d) between f and 2f 16) Power of a lens is –4D, then its focal length is a) 4m b) –40m c) –0.25 m d) –2.5 m 17) 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 18) The eye defect 'presbyopia' can be corrected by a) convex lens b) concave lens c) convex mirror d) Bi focal lenses 19) 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 20) 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 = VRb) VB > VG > VRc) VB < VG < VRd) VB < VG > VR21) The value of universal gas constant a) 3.81 Jmol-1 K-1 b) 8.03 Jmol-1 K-1 c) 1.38 Jmol-1 K-1 d) 8.31 Jmol-1 K-1 22) 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 23) If a substance is heated or cooled, the linear expansion occurs along the axis of b) Y or –Y c) both (a) and (b) a) X or –X d) (a) or (b) 24) 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 25) In the Given diagram, the possible direction of heat energy transformation is a)A \leftarrow B, A \leftarrow C,B \leftarrow C 303 K b)A \longrightarrow B, A \longrightarrow C,B \longrightarrow C 304 K 305 K c)A \longrightarrow B, A \leftarrow C,B \longrightarrow C d)A \leftarrow B, A \rightarrow C,B \leftarrow C 26) 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.

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27) SI unit of resistance is a) mho b) joule c) ohm d) ohm meter 28) 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. 29) Kilowatt hour is the unit of d) electrical power a) resistivity b) conductivity c) electrical energy 30) 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 31) Velocity of sound in a gaseous medium is 330 ms-1. If the pressure is increased by 4 times without causing a change in the temperature, the velocity of sound in the gas is b) 660 ms1 c) 156 ms-1 a) 330 ms-1 d) 990 ms-1 32) The frequency, which is audible to the human ear is a) 50 kHz b) 20 kHz c) 15000 kHz d) 10000 kHz 33) The velocity of sound in air at a particular temperature is 330 ms-1. What will be its value when temperature is doubled and the pressure is halved? a) 330 ms-1 b) 165 ms-1 c) 330 × √2 ms−1 d) 320 / √ 2 ms−1 34) If a sound wave travels with a frequency of 1.25 × 104 Hz at 344 ms-1, the wavelength will a) 27.52 m b) 275.2 m c) 0.02752 m d) 2.752 m 35) The sound waves are reflected from an obstacle into the same medium from which they were incident. Which of the following changes? b) frequency c) wavelength d) none of these a) speed 36) Velocity of sound in the atmosphere of a planet is 500 ms-1. The minimum distance between the sources of sound and the obstacle to hear the echo, should be b) 20 m a) 17 m c) 25 m d) 50 m 37)Man-made radioactivity is also known as _____ a. Induced radioactivity b. Spontaneous radioactivity c. Artificial radioactivity d. a & c 38)Unit of radioactivity is c. becquerel d. all the above a. roentgen b. curie 39)Artificial radioactivity was discovered by b. Irene Curie d. Neils Bohr a. Bequerel c. Roentgen 40)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 41) isotope is used for the treatment of cancer. a. Radio Iodine b. Radio Cobalt c. Radio Carbon d. Radio Nickel

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42)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 43) aprons are used to protect us from gamma radiations c. Lead d. Aluminium a. Lead oxide b. Iron 44) Which of the following statements is/are correct? ii. Penetrating power of y radiation is very low i. α particles are photons iii. Ionization power is maximum for α rays iv. Penetrating power of y radiation is very high a. (i) & (ii) are correct b. (ii) & (iii) are correct c. (iv) only correct d. (iii) & (iv) are correct 45)Proton - Proton chain reaction is an example of d. β - decay a. Nuclear fission b. α – decay c. Nuclear fusion 46)In the nuclear reaction 6X12 α decay ZYA, the value of A & Z. b. 8, 4 c. 4, 8 d. cannot be determined with the given data a. 8, 6 47)Kamini reactor is located at a. Kalpakkam b. Koodankulam c. Mumbai d. Rajasthan 48) 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 49)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 50)Which of the following is a triatomic molecule? a. Glucose c. Carbon dioxide b. Helium d. Hydrogen 51)The volume occupied by 4.4 g of CO2 at S.T.P a. 22.4 litre d. 0.1 litre b. 2.24 litre c. 0.2 4 litre 52)Mass of 1 mole of Nitrogen atom is a. 28 amu b. 14 amu c. 28 g d. 14 g 53)Which of the following represents 1 amu? a. Mass of a C – 12 atom b. Mass of a hydrogen atom d. Mass of O – 16 atom c. 1/12th of the mass of a C – 12 atom 54) Which of the following statement is incorrect? a. 12 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.

55)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 56)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 57)The gram molecular mass of oxygen molecule is b. 18 g c. 32 g d. 17 g a. 16 g 58)1 mole of any substance contains ____ molecules. a. 6.023 × 1023 b. 6.023 × 10-23 c. 3.0115 × 1023 d. 12.046 × 1023 59)The number of periods and groups in the periodic table are . b) 7,17 a) 6,16 c) 8,18 d) 7,18 60)The basis of modern periodic law is_____. a) atomic number b) atomic mass c) isotopic mass d) number of neutrons 61) ____ group contains the member of halogen family. b) 15th a) 17th c) 18th d) 16th 62) is a relative periodic property a) atomic radii b) ionic radii c) electron affinity d) electronegativity 63)Chemical formula of rust is _____. a) FeO.xH2O b) FeO4.xH2O c) Fe2O3.xH2O d) FeO 64)In the alumino thermic process the role of Al is _____. a) oxidizing agent b) reducing agent c) hydrogenating agent d) sulphurising agent 65)The process of coating the surface of metal with a thin layer of zinc is called . b) thinning c) galvanization a) painting d) electroplating 66)Which of the following have inert gases 2 electrons in the outermost shell. c) Ar a) He b) Ne d) Kr 67)Neon shows zero electron affinity due to . a) stable arrangement of neutrons b) stable configuration of electrons c) reduced size d) increased density 68) is an important metal to form amalgam. a) Ag b) Hg c) Mg d) Al 69)A solution is a _____ mixture a. homogeneous b. heterogeneous c. homogeneous and heterogeneous d. non homogeneous 70) The number of components in a binary solution is ______ a. 2 b. 3 c. 4 d. 5 71) Which of the following is the universal solvent? d. Alcohol a. Acetone b. Benzene c. Water

72) A colution in which no more colute can be discoluded in a definite amount of column at a
72) A solution in which no more solute can be dissolved in a definite amount of solvent at a given temperature is called
given temperature is called
a. Saturated solution b. Un saturated solution c. Super saturated solution d. Dilute solution
73) Identify the non aqueous solution.
a. sodium chloride in water b. glucose in water
c. copper sulphate in water d. sulphur in carbon-di-sulphide
74) When pressure is increased at constant temperature the solubility of gases in liquid
a. No change b. increases c. decreases d. no reaction
75) Solubility of NaCl in 100 ml water is 36 g. If 25 g of salt is dissolved in 100 ml of water how
much more salt is required for saturation
a. 12g b. 11g c. 16g d. 20g
76) A 25% alcohol solution means
a. 25 ml alcohol in 100 ml of water b. 25 ml alcohol in 25 ml of water
c. 25 ml alcohol in 75 ml of water d. 75 ml alcohol in 25 ml of water
77) Deliquescence is due to
a. Strong affinity to water b. Less affinity to water
c. Strong hatred to water d. Inertness to water
78)Which of the following is hygroscopic in nature?
a. ferric chloride b. copper sulphate penta hydrate c. silica gel d. none of the above
79)H2(g) + Cl29(g) \rightarrow 2HCl(g) is a
a. Decomposition Reaction b. Combination Reaction
c. Single Displacement Reaction d. Double Displacement Reaction
80)Photolysis is a decomposition reaction caused by
a. heat b. electricity c. light d. mechanical energy
81)A reaction between carbon and oxygen is represented by $C(s) + O2(g) \rightarrow CO2(g) + Heat. In$
which of the type(s), the above reaction can be classified?
(i) Combination Reaction (ii) Combustion Reaction
(iii) Decomposition Reaction (iv) Irreversible Reaction
a. i and ii b. i and iv c. i, ii and iii d. i, ii and iv
82)The chemical equation
Na2SO4(aq) + BaCl2(aq) \rightarrow BaSO4(s) \downarrow + 2NaCl(aq)
represents which of the following types of reaction?
a. Neutralisation b. Combustion c. Precipitation d. Single displacement
83)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 Kindly Send Me Your Questions & Answer Keys to us: padasalai.net@gmail.com

84)A single displacement reaction is represented by $X(s) + 2HCl(aq) \rightarrow XCl2(aq) + H2(g)$. Which of the following(s) could be X. (i) Zn (ii) Ag (iv) Mg. (iii) Cu Choose the best pair. a. i and ii b. ii and iii c. iii and iv d. i and iv 85)Which of the following is not an "element + element \rightarrow compound" type reaction? a. $C(s) + O2(g) \rightarrow CO2(g)$ b. $2K(s) + Br2(I) \rightarrow 2KBr(s)$ d. $4Fe(s) + 3O2(g) \rightarrow 2Fe2O3(s)$ c. $2CO(g) + O2(g) \rightarrow 2CO2(g)$ 86)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(1) c. A(aq) + B(aq) \rightarrow C(s) + D(aq) d. A(aq) + B(s) \rightarrow C(aq) + D(*I*) 87)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 88)Powdered CaCO3 reacts more rapidly than flaky CaCO3 because of ______ a. large surface area b. high pressure c. high concentration d. high temperature 89)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 90)The IUPAC name of an organic compound is 3-Methyl butan-1-ol. What type compound it is? b. Carboxylic acid a. Aldehyde c. Ketone d. Alcohol 91)The secondary suffix used in IUPAC nomenclature of an aldehyde is a. – ol b. – oic acid c. - al d. - one 92)Which of the following pairs can be the successive members of a homologous series? c. CH4 and C3H6 d. C2H5OH and C4H8OH a. C3H8 and C4H10 b. C2H2 and C2H4 93)C2H5OH + 3O2 → 2CO2 + 3H2O is a a. Reduction of ethanol b. Combustion of ethanol c. Oxidation of ethanoic acid d. Oxidation of ethanal 94)Rectified spirit is an aqueous solution which contains about ______ of ethanol b. 75.5 % d. 45.5 % a. 95.5 % c. 55.5 % 95)Which of the following are used as anaesthetics? a. Carboxylic acids d. Aldehydes b. Ethers c. Esters 96)TFM in soaps represents content in soap a. mineral b. vitamin c. fatty acid d. carbohydrate 97)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 –SO3–Na⁺ d. It is effective even in hard water.

BIOLOGY – (UNIT 12-23) JO.VANITHA.M.Sc.,M.A.,M.Phil.,B.Ed., Choose the correct answer 1)Casparian strips are present in the of the root. a) cortex b) pith d) endodermis c) pericycle 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 b) amphivasal c) conjoint d) None of these a) radial 4) Which is formed during anaerobic respiration a) Carbohydrate b) Ethyl alcohol c)Acetyl CoA d) Pyruvate 5)Kreb's cycle takes place in d)inner mitochondrial membrane a)chloroplast b)mitochondrial matrix c)stomata 6)Oxygen is produced at what point during photosynthesis? a)when ATP is converted to AD b)when CO2 is fixed c)when H2O is splitted d)All of these 7) In leech locomotion is performed by a) Anterior sucker b) Parapodia c) Setae d) Contraction and relaxation of muscles 8) The segments of leech are known as a) Metameres (somites) b) Proglottids c) Strobila d) All the above 9) Pharyngeal ganglion in leech is a part of a) Excretory system b) Nervous system c) Reproductive system d) Respiratory system 10) The brain of leech lies above the b) Buccal Cavity a) Mouth c) Pharynx d) Crop 11)The body of leech has a) 23 segments c) 38 segments b) 33 segments d) 30 segments 12) Mammals are _____ animals. a) Cold blooded b) Warm blooded c) Poikilothermic d) All the above 13)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 14) Water which is absorbed by roots is transported to aerial parts of the plant through b) epidermis c) phloem d) xylem a) cortex 15) During transpiration there is loss of a) carbon dioxide b) oxygen c) water d) none of the above 16)Root hairs are c) unicellular a) cortical cell b) projection of epidermal cell d) both b and c 17) Which of the following process requires energy? a) active transport b) diffusion c) osmosis d) all of them

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18) The wall of human heart is made of a) Endocardium b) Epicardium c) Myocardium d) All of the above 19) Which is the correct sequence of blood flow a) ventricle atrium vein arteries b) atrium ventricle veins arteries c) atrium ventricle arteries vein d) ventricles vein atrium arteries 20) A patient with blood group **O** was injured in an accident and has blood loss. Which group of blood should be used by doctor for transfusion? d) all blood group a) O group b) AB group c) A or B group 21) 'Heart of hart' is called a) SA node b) AV node c) Purkinje fibres d) Bundle of His 22) Which one of the following shows correct composition of blood a) Plasma - Blood + Lymphocyte b) Serum - Blood + Fibrinogen c) Lymph - Plasma + RBC + WBC d) Blood - Plasma + RBC+ WBC + Platelets 23) Bipolar neurons are found in (a) retina of eye (b) cerebral cortex (c) embryo (d) respiratory epithelium 24)Site for processing of vision, hearing, memory, speech, intelligence and thought is (a) kidney (b) ear (c) brain (d) lungs 25)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 26) 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 27) The outer most of the three cranial meninges is (a) arachnoid membrane (b) piamater (c) duramater (d) myelin sheath 28) There are pairs of cranial nerves and pairs of spinal nerves. (b) 31, 12 (a) 12, 31 (c) 12, 13 (d) 12, 21 29)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 30) Which nervous band connects the two cerebral hemispheres of brain? (a) thalamus (b) hypothalamus (c) corpus callosum (d) pons 31)Node of Ranvier is found in (c) dendrites (a) muscle (b) axons (d) cyton 32)Vomiting centre is located in (a) medulla oblongata (b) stomach (c) cerebrum (d) hypothalamus 33) Nerve cells do not possess (a) neurilemma (b) sarcolemma (d) dendrites (c) axon

34)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? (c) pons (a) Medulla oblongata (b) cerebrum (d) hypothalamus 35) Gibberellins cause: a) Shortening of genetically tall plants b) Elongation of dwarf plants c) Promotion of rooting d) Yellowing of young leaves 36) The hormone which has positive effect on apical dominance is: c) Gibberellin a) Cytokinin b) Auxin d) Ethylene 37)Which one of the following hormones is naturally not found in plants: a) 2, 4-D b) GA3 c) Gibberellin d) IAA 38) Avena coleoptile test was conducted by b) N. Smit a) Darwin c) Paal d) F.W. Went 39)LH is secreted by a) Adrenal gland b) Thyroid gland c) Anterior pituitary d) Hypothalamus. 40) Identify the exocrine gland b) Adrenal gland a) Pituitary gland c) Salivary gland d) Thyroid gland 41) Which organ acts as both exocrine gland as well as endocrine gland a) Pancreas b) Kidney c) Liver d) Lungs 42)Which one is referred as "Master Gland"? a) Pineal gland b) Pituitary gland c) Thyroid gland d) Adrenal gland 43) The plant which propagates with the help of its leaves is ______. d) Bryophyllum a) Onion b) Neem c) Ginger 44)Asexual reproduction takes place through budding in . a) Amoeba b) Yeast c) Plasmodium d) Bacteria 45) Syngamy results in the formation of ______. d) Chlamydospores b) Conidia c) Zygote a) Zoospores 46) The essential parts of a flower are ______. b) Calyx and Androecium a) Calyx and Corolla d) Androecium and Gynoecium c) Corolla and Gynoecium 47) Anemophilous flowers have ______. b) Small smooth stigma c) Colored flower a) Sessile stigma d) Large feathery stigma 48) Male gametes in angiosperms are formed by the division of _____ a) Generative cell b) Vegetative cell c) Microspore mother cell d) Microspore 49)What is true of gametes? a) They are diploid b) They give rise to gonads c) They produce hormones d) They are formed from gonads

50) A single highly coiled tube where sperms are stored, get concentrated and mature is known a) Epididymis b) Vasa efferentia c) Vas deferens d) Seminiferous tubules 51) The large elongated cells that provide nutrition to developing sperms are a) Primary germ cells b) Sertoli cells c) Leydig cells d) Spermatogonia 52)Estrogen is secreted by a) Anterior pituitary b) Primary follicle c) Graffian follicle d) Corpus luteum 53) Which one of the following is an IUCD? a) Copper – T b) Oral pills c) Diaphragm d) Tubectomy 54) According to Mendel alleles have the following character a) Pair of genes b) Responsible for character c) Production of gametes d) Recessive factors 55)9 : 3 : 3 : 1 ratio is due to a) Segregation b) Crossing over c) Independent assortment d) Recessiveness 56)The region of the chromosome where the spindle fibres get attached during cell division a) Chromomere b) Centrosome c) Centromere d) Chromonema 57) The centromere is found at the centre of the ______ chromosome. b) Metacentric c) Sub-metacentric d) Acrocentric a) Telocentric 58) The units form the backbone of the DNA. a) 5 carbon sugar b) Phosphate c) Nitrogenous bases d) Sugar phosphate 59)Okasaki fragments are joined together by c) RNA primer d) DNA ligase a) Helicase b) DNA polymerase 60) The number of chromosomes found in human beings are _____ a) 22 pairs of autosomes and 1 pair of allosomes. b) 22 autosomes and 1 allosome c) 46 autosomes d) 46 pairs autosomes and 1 pair of allosomes. 61)The loss of one or more chromosome in a ploidy is called ______. c) Euploidy d) polyploidy a) Tetraploidy b) Aneuploidy 62) 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 63) The 'use and disuse theory' was proposed by a. Charles Darwin b. Ernst Haeckel c. Jean Baptiste Lamarck d. Gregor Mendel 64)Paleontologists deal with a. Embryological evidences b. Fossil evidences c. Vestigial organ evidences d. All the above 65) 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)

66) The term Ethnobotany was coined by a. Khorana b. J.W. Harsbberger c. Ronald Ross d. Hugo de Vries 67)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 68)Pusa Komal is a disease resistant variety of b. rice d. maize a. sugarcane c. cow pea 69) Himgiri developed by hybridisation and selection for disease resistance against rust pathogens is a variety of . a. chilli d. wheat b. maize c. sugarcane 70)**The miracle rice** which saved millions of lives and celebrated its 50th birthday is c. Atomita 2 d. Ponni a. IR 8 b. IR 24 71)Which of the following is used to produce products useful to humans by biotechnology techniques? a. enzyme from organism b. live organism c. vitamins d. both (a) and (b) 72)We can cut the DNA with the help of b. restriction endonucleases c. knife d. RNAase a. scissors 73)rDNA is a a. vector DNA b. circular DNA c. recombinant of vector DNA and desired DNA d. satellite DNA 74)DNA fingerprinting is based on the principle of identifying ------ sequences of DNA a. single stranded b. mutated d. repetitive c. polymorphic 75)Organisms with modified endogenous gene or a foregin gene are also known as (a) transgenic organsims (b) genetically modified (c) mutated (d) both a and b 76) In a hexaploid wheat (2n = 6x = 42) the haploid (n) and the basic (x) number of chromosomes respectively are a. n = 7 and x = 21b. n = 21 and x = 21c. n = 7 and x = 7d. n = 21 and x = 777)Tobacco consumption is known to stimulate secretion of adrenaline. The component causing this could be a) Nicotine b) Tannic acid c) Curcumin d) Leptin 78)World 'No Tobacco Day' is observed on a) May 31 b) June 6 c) April 22 d) October 2 79)Cancer cells are more easily damaged by radiations than normal cells because they are a) Different in structure b) Non-dividing c) Mutated Cells d) Undergoing rapid division 80)Which type of cancer affects lymph nodes and spleen? a) Carcinoma b) Sarcoma c) Leukemia d) Lymphoma 81) Excessive consumption of alcohol leads to a) Loss of memory b) Cirrhosis of liver c) State of hallucination d) Supression of brain function Kindly Send Me Your Questions & Answer Keys to us: padasalai.net@gmail.com

82)Coronary heart disease is due to b) Inflammation of pericardium a) Streptococci bacteria c) Weakening of heart valves d) Insufficient blood supply to heart muscles 83)Cancer of the epithelial cells is called a) Leukemia c) Carcinoma d) Lipoma b) Sarcoma 84)Metastasis is associated with b) Benign tumour c) Both (a) and (b) d) Crown gall tumour a) Malignant tumour 85)Polyphagia is a condition seen in a) Obesity b) Diabetes mellitus c) Diabetes insipidus d) AIDS 86) Where does alcohol effect immediately after drinking? b) Auditory region a) Eyes c) Liver d) Central nervous system 87)Which of the following is / are a fossil fuel? i. Tar ii. Coal iii. Petroleum b) i and ii c) ii and iii d) i, ii and iii a) i only 88)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 89) 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 90)Soil erosion can be prevented by b) afforestion c) over growing d) removal of vegetation a) deforestation 91)A renewable source of energy is a) petroleum b) coal c) nuclear fuel d) trees 92)Soil erosion is more where there is c) rain fall is high a) no rain fall b) low rainfall d) none of these 93)An inexhaustible resources is a) wind power b) soil fertility c) wild life d) all of the above 94)Common energy source in village is b) coal a) electricity c) biogas d) wood and animal dung 95)Green house effect refers to a) cooling of earth b) trapping of UV rays c) cultivation of plants d) warming of earth 96)A cheap, conventional, commercial and inexhaustible source of energy is a) hydropower b) solar energy c) wind energy d) thermal energy 97)Global warming will cause a) raise in level of oceans b) melting of glaciers c) sinking of islands d) all of these

98)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 help of electric motor

c) production of wind energy is pollution free

d) usage of wind energy can reduce the consumption of fossil fuels

99) Which software is used to create animation ?

a) Paint b) PDF c) MS Word d) Scratch

100)All files are stored in the _____

a) Folder b) box c) Pai d) scanner

101)Which is used to build scripts?

a) Script area b) Block palette c) stage d) sprite

102)Which is used to edit programs?

a) Inkscape b) script editor c) stage d) sprite

103)Where you will create category of blocks?

a) Block palette b) Block menu c) Script area d) sprite