

SL.NO	QUESTION	TRUE/FALSE
1.1	The linear momentum of a system of particles is always conserved.	FALSE
	<u>In the absence of an external force</u> the linear momentum of a system of particles is always conserved.	CORRECTED STATEMENT
1.2	Apparent weight of a person is always equal to his actual weight.	FALSE
	Apparent weight of a person is always <u>not equal</u> to his actual weight.	CORRECTED STATEMENT
1.3	Weight of a body is greater at the equator and less at the polar region.	FALSE
	Weight of a body is greater at the <u>polar</u> and less at the <u>equatorial</u> region.	CORRECTED STATEMENT
1.4	Turning a nut with a spanner having a short handle is so easy than one with a long handle.	FALSE
	Turning a nut with a spanner having a <u>long</u> handle is so easy than one with a <u>short</u> handle.	CORRECTED STATEMENT
1.5	There is no gravity in the orbiting space station around the Earth. So the astronauts feel weightlessness.	FALSE
	<u>Space station and astronauts have equal acceleration and free fall condition.</u> So the astronauts feel weightlessness.	CORRECTED STATEMENT
2.1	Velocity of light is greater in denser medium than in rarer medium.	FALSE
	Velocity of light is greater in <u>rarer</u> medium than in <u>denser</u> medium.(OR) Velocity of light is <u>lesser in denser</u> medium than in <u>rarer</u> medium.	CORRECTED STATEMENT
2.2	The power of lens depends on the focal length of the lens.	TRUE
2.3	Increase in the converging power of eye lens cause ' hypermetropia '.	FALSE
	Increase in the converging power of eye lens cause ' <u>myopia</u> '.	CORRECTED STATEMENT

SL.NO	QUESTION	TRUE/FALSE
2.4	The convex lens always gives small virtual image.	FALSE
	The concave lens always gives small virtual image.	CORRECTED STATEMENT
3.1	For a given heat in liquid, the apparent expansion is more than that of real expansion.	FALSE
	For a given heat in liquid, the apparent expansion is less than that of real expansion. (OR) For a given heat in liquid, the real expansion is more than that of apparent expansion.	CORRECTED STATEMENT
3.2	Thermal energy always flows from a system at higher temperature to a system at lower temperature.	TRUE
3.3	According to Charles's law, at constant pressure, the temperature is inversely proportional to volume.	FALSE
	According to Charles's law, at constant pressure, the temperature is directly proportional to volume.	CORRECTED STATEMENT
4.1	Ohm's law states the relationship between power and voltage.	FALSE
	Ohm's law states the relationship between current and voltage.	CORRECTED STATEMENT
4.2	MCB is used to protect house hold electrical appliances.	TRUE
4.3	The SI unit for electric current is the coulomb .	FALSE
	The SI unit for electric current is the ampere .	CORRECTED STATEMENT
4.4	One unit of electrical energy consumed is equal to 1000 kilowatt hour .	FALSE
	One unit of electrical energy consumed is equal to 1 kilowatt hour .	CORRECTED STATEMENT
4.5	The effective resistance of three resistors connected in series is lesser than the lowest of the individual resistances.	FALSE
	The effective resistance of three resistors connected in parallel is lesser than the lowest of the individual resistances.	CORRECTED STATEMENT

SL.NO	QUESTION	TRUE/FALSE
5.1	Sound can travel through solids, gases, liquids and even vacuum.	FALSE
	Sound can travel through solids, gases, liquids and <u>not in vacuum.</u> (OR) Sound waves <u>cannot</u> travel through vaccum	CORRECTED STATEMENT
5.2	Waves created by Earth Quake are Infrasonic.	TRUE
5.3	The velocity of sound is independent of temperature.	FALSE
	The velocity of sound is <u>dependent</u> of temperature. (OR) The velocity of sound is <u>directly proportional to square root</u> of temperature.	CORRECTED STATEMENT
5.4	The Velocity of sound is high in gases than liquids.	FALSE
	The Velocity of sound is <u>low</u> in gases than liquids. (OR) The Velocity of sound is high in <u>liquids</u> than <u>gases.</u>	CORRECTED STATEMENT
6.1	Plutonium -239 is a fissionable material.	TRUE
6.2	Elements having atomic number greater than 83 can undergo nuclear fusion.	FALSE
	Elements having atomic number greater than 83 can undergo nuclear <u>fission.</u>	CORRECTED STATEMENT
6.3	Nuclear fusion is more dangerous than nuclear fission.	TRUE
6.4	Natural uranium U-238 is the core fuel used in a nuclear reactor.	FALSE
	Natural uranium <u>U-235</u> is the core fuel used in a nuclear reactor. (<u>U-235- Uranium-235</u>)	CORRECTED STATEMENT
6.5	If a moderator is not present, then a nuclear reactor will behave as an atom bomb.	FALSE
	If a <u>control rods</u> is not present, then a nuclear reactor will behave as an atom bomb.	CORRECTED STATEMENT
6.6	During one nuclear fission on an average, 2 to 3 neutrons are produced.	TRUE
6.7	Einstein's theory of mass energy equivalence is used in nuclear fission and fusion.	TRUE

SL.NO	QUESTION	TRUE/FALSE
7.1	Two elements sometimes can form more than one compound.	TRUE
7.2	Noble gases are Diatomic .	FALSE
	Noble gases are monoatomic .	CORRECTED STATEMENT
7.3	The gram atomic mass of an element has no unit .	FALSE
	The gram atomic mass of an element has unit gram .	CORRECTED STATEMENT
7.4	1 mole of Gold and Silver contain same number of atoms.	TRUE
7.5	Molar mass of CO ₂ is 42g .	FALSE
	Molar mass of CO ₂ is 44g .(12+(2x16))=12+32=44	CORRECTED STATEMENT
8.1	Moseley's periodic table is based on atomic mass .	FALSE
	Moseley's periodic table is based on atomic number .	CORRECTED STATEMENT
8.2	Ionic radius increases across the period from left to right.	FALSE
	Ionic radius decreases across the period from left to right.	CORRECTED STATEMENT
8.3	All ores are minerals; but all minerals cannot be called as ores.	TRUE
8.4	Al (aluminium) wires are used as electric cables due to their silvery white colour .	FALSE
	Al (aluminium) wires are used as electric cables due to their conductivity .	CORRECTED STATEMENT
8.5	An alloy is a heterogenous mixture of metals.	FALSE
	An alloy is a homogenous mixture of metals	CORRECTED STATEMENT
9.1	Solutions which contain three components are called binary solution.	FALSE
	Solutions which contain three components are called ternary solution.	CORRECTED STATEMENT
9.2	In a solution the component which is present in lesser amount is called solvent .	FALSE
	In a solution the component which is present in greater amount is called solvent.(OR) In a solution the component which is present in lesser amount is called solute .	CORRECTED STATEMENT

SL.NO	QUESTION	TRUE/FALSE
9.3	Sodium chloride dissolved in water forms a non-aqueous solution.	FALSE
	Sodium chloride dissolved in water forms an aqueous solution.	CORRECTED STATEMENT
9.4	The molecular formula of green vitriol is $MgSO_4 \cdot 7H_2O$	FALSE
	The molecular formula of green vitriol is <u>FeSO₄·7H₂O</u> (OR) The molecular formula of <u>Epsom salt</u> is $MgSO_4 \cdot 7H_2O$	CORRECTED STATEMENT
9.5	When Silica gel is kept open, it absorbs moisture from the air, because it is hygroscopic in nature.	TRUE
10.1	Silver metal can displace hydrogen gas from nitric acid.	FALSE
	Silver metal can not displace hydrogen gas from nitric acid.	CORRECTED STATEMENT
10.2	The pH of rain water containing dissolved gases like SO_3 , CO_2 , NO_2 will be less than 7.	TRUE
10.3	At the equilibrium of a reversible reaction, the concentration of the reactants and the products will be equal.	TRUE
10.4	Periodical removal of one of the products of a reversible reaction increases the yield.	TRUE
10.5	On dipping a pH paper in a solution, it turns into yellow . Then the solution is basic .	FALSE
	On dipping a pH paper in a solution, it turns into violet . Then the solution is basic. (OR) On dipping a pH paper in a solution, it turns into yellow. Then the solution is acidic .	CORRECTED STATEMENT
12.1	Phloem tissue is involved in the transport of water in plant.	FALSE
	Phloem tissue is involved in the transport of food in plant.(OR) Xylem tissue is involved in the transport of water in plant.	CORRECTED STATEMENT

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SL.NO	QUESTION	TRUE/FALSE
12.2	The waxy protective covering of a plant is called as cuticle.	TRUE
12.3	In monocot stem cambium is present in between xylem and phloem.	FALSE
	In dicot stem cambium is present in between xylem and phloem.	CORRECTED STATEMENT
12.4	Palisade parenchyma cells occur below upper epidermis in dicot root .	FALSE
	Palisade parenchyma cells occur below upper epidermis in dicot leaf .	CORRECTED STATEMENT
12.5	Mesophyll contains chlorophyll.	TRUE
12.6	Anaerobic respiration produces more ATP than aerobic respiration.	FALSE
	Aerobic respiration produces more ATP than anaerobic respiration.	CORRECTED STATEMENT
13.1	An anticoagulant present in saliva of leech is called heparin .	FALSE
	An anticoagulant present in saliva of leech is called hirudin .	CORRECTED STATEMENT
13.2	The vas deferens serves to transport the ovum .	FALSE
	The vas deferens serves to transport the sperm .	CORRECTED STATEMENT
13.3	Diastema is a gap between premolar and molar teeth in rabbit.	FALSE
	Diastema is a gap between premolar and incisors teeth in rabbit.	CORRECTED STATEMENT
13.4	The cerebral hemispheres of rabbit are connected by band of nerve tissue called corpora quadrigemina .	FALSE
	The cerebral hemispheres of rabbit are connected by band of nerve tissue called corpus collosum .	CORRECTED STATEMENT
14.1	The phloem is responsible for the translocation of food.	TRUE
14.2	Plants lose water by the process of transpiration.	TRUE

SL.NO	QUESTION	TRUE/FALSE
14.3	The form of sugar transported through the phloem is glucose.	FALSE
	The form of sugar transported through the phloem is sucrose.	CORRECTED STATEMENT
14.4	In apoplastic movement the water travels through the cell membrane and enter the cell.	FALSE
	In symplastic movement the water travels through the cell membrane and enter the cell.(OR) In apoplastic movement the water travels through the intercellular spaces and walls of the cells .	CORRECTED STATEMENT
14.5	When guard cells lose water the stoma opens.	FALSE
	When guard cells lose water the stoma closes .(OR) When water enters into guard cells the stoma opens.	CORRECTED STATEMENT
14.6	Initiation and stimulation of heart beat take place by nerves .	FALSE
	Initiation and stimulation of heart beat take place by sino atrial node .	CORRECTED STATEMENT
14.7	All veins carry deoxygenated blood.	FALSE
	All veins carry deoxygenated blood except pulmonary vein .	CORRECTED STATEMENT
14.8	WBC defend the body from bacterial and viral infections.	TRUE
14.9	The closure of the mitral and tricuspid valves at the start of the ventricular systole produces the first sound 'LUBB'.	TRUE
15.1	Dendrons are the longest fibres that conducts impulses away from the cell body.	FALSE
	Axons are the longest fibres that conducts impulses away from the cell body.(OR) Dendrons are the longest fibres that conducts impulses towards from the cell body.	CORRECTED STATEMENT
15.2	Sympathetic nervous system is a part of central nervous system.	FALSE
	Sympathetic nervous system is a part of autonomic nervous system.	CORRECTED STATEMENT

SL.NO	QUESTION	TRUE/FALSE
15.3	Hypothalamus is the thermoregulatory centre of human body.	TRUE
15.4	Cerebrum controls the voluntary actions of our body.	FALSE
	<u>Cerebellum</u> controls the voluntary actions of our body.	CORRECTED STATEMENT
15.5	In the central nervous system myelinated fibres form the white matter.	TRUE
15.6	All the nerves in the body are covered and protected by meninges.	FALSE
	All the nerves in the <u>brain</u> is covered and protected by meninges.	CORRECTED STATEMENT
15.7	Cerebrospinal fluid provides nutrition to brain.	TRUE
15.8	Reflex arc allows the rapid response of the body to a stimulus.	TRUE
15.9	Pons helps in regulating respiration.	TRUE
16.1	A plant hormone concerned with stimulation of cell division and promotion of nutrient mobilization is cytokinin.	TRUE
16.2	Gibberellins cause parthenocarpy in tomato.	TRUE
16.3	Ethylene retards senescence of leaves, flowers and fruits.	FALSE
	Ethylene <u>hastens</u> senescence of leaves, flowers and fruits.	CORRECTED STATEMENT
16.4	Exophthalmic goiter is due to the over secretion of thyroxine.	TRUE
16.5	Pituitary gland is divided into four lobes.	FALSE
	Pituitary gland is divided into <u>two</u> lobes.	CORRECTED STATEMENT
16.6	Estrogen is secreted by corpus luteum .	FALSE
	Estrogen is secreted by <u>Graffian follicles of overy.</u>	CORRECTED STATEMENT

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SL.NO	QUESTION	TRUE/FALSE
17.1	Stalk of the ovule is called pedicle .	FALSE
	Stalk of the ovule is called funicle .	CORRECTED STATEMENT
17.2	Seeds are the product of asexual reproduction	FALSE
	Seeds are the product of sexual reproduction	CORRECTED STATEMENT
17.3	Yeast reproduces asexually by means of multiple fission .	FALSE
	Yeast reproduces asexually by means of budding .	CORRECTED STATEMENT
17.4	The part of the pistil which serves as a receptive structure for the pollen is called as style .	FALSE
	The part of the pistil which serves as a receptive structure for the pollen is called as stigma .	CORRECTED STATEMENT
17.5	Insect pollinated flowers are characterized by dry and smooth pollen.	FALSE
	Wind pollinated flowers are characterized by dry and smooth pollen.	CORRECTED STATEMENT
17.6	Sex organs produce gametes which are diploid .	FALSE
	Sex organs produce gametes which are haploid .	CORRECTED STATEMENT
17.7	LH is secreted by the posterior pituitary.	FALSE
	LH is secreted by the anterior pituitary.	CORRECTED STATEMENT
17.8	Menstrual cycle ceases during pregnancy.	TRUE
17.9	Surgical methods of contraception prevent gamete formation .	FALSE
	Surgical methods of contraception prevent fertilization .	CORRECTED STATEMENT
17.10	The increased level of estrogen and progesterone is responsible for menstruation.	FALSE
	The decreased level of estrogen and progesterone is responsible for menstruation.	CORRECTED STATEMENT
18.1	A typical Mendelian dihybrid ratio of F ₂ generation is 3:1 .	FALSE
	A typical Mendelian dihybrid ratio of F ₂ generation is 9:3:3:1 .(OR) A typical Mendelian monohybrid ratio of F ₂ generation is 3:1 .	CORRECTED STATEMENT

SL.NO	QUESTION	TRUE/FALSE
18.2	A recessive factor is altered by the presence of a dominant factor.	FALSE
	A recessive factor is masked by the presence of a dominant factor.(OR) The expression of a recessive factor is altered by the presence of a dominant factor.	CORRECTED STATEMENT
18.3	Each gamete has only one allele of a gene.	TRUE
18.4	Hybrid is an offspring from a cross between genetically different parent.	TRUE
18.5	Some of the chromosomes have an elongated knob-like appendages known as telomere.	FALSE
	Some of the chromosomes have an elongated knob-like appendages known as satellite.	CORRECTED STATEMENT
18.6	New nucleotides are added and new complementary strand of DNA is formed with the help of enzyme DNA polymerase.	TRUE
18.7	Down's syndrome is the genetic condition with 45 chromosomes	FALSE
	Down's syndrome is the genetic condition with 47 chromosomes	CORRECTED STATEMENT
19.1	The use and disuse theory of organs' was postulated by Charles Darwin .	FALSE
	The use and disuse theory of organs' was postulated by Lamarck	CORRECTED STATEMENT
19.2	The homologous organs look similar and perform similar functions but they have different origin and developmental pattern.	FALSE
	The analogous organs look similar and perform similar functions but they have different origin and developmental pattern.	CORRECTED STATEMENT
19.3	Birds have evolved from reptiles.	TRUE

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SL.NO	QUESTION	TRUE/FALSE
20.1	<i>Raphano brassica</i> is a man-made tetraploid produced by colchicine treatment.	TRUE
20.2	The process of producing an organism with more than two sets of chromosome is called mutation .	FALSE
	The process of producing an organism with more than two sets of chromosome is called polyploidy .	CORRECTED STATEMENT
20.3	A group of plants produced from a single plant through vegetative or asexual reproduction are called a pureline .	FALSE
	A group of plants produced from a single plant through vegetative or asexual reproduction are called a clones .	CORRECTED STATEMENT
20.4	Iron fortified rice variety determines the protein quality of the cultivated plant	FALSE
	Iron fortified rice variety determines the iron quality of the cultivated plant	CORRECTED STATEMENT
20.5	Golden rice is a hybrid .	FALSE
	Golden rice is a genetically modified rice .	CORRECTED STATEMENT
20.6	Bt gene from bacteria can kill insects.	TRUE
20.7	<i>In vitro</i> fertilisation means the fertilization done inside the body.	FALSE
	<i>In vitro</i> fertilisation means the fertilization done outside the body.	CORRECTED STATEMENT
20.8	DNA fingerprinting technique was developed by Alec Jeffrey.	TRUE
20.9	Molecular scissors refers to DNA ligases .	FALSE
	Molecular scissors refers to restriction enzymes .	CORRECTED STATEMENT
21.1	AIDS is an epidemic disease.	FALSE
	AIDS is an pandemic disease.	CORRECTED STATEMENT
21.2	Cancer causing genes are called Oncogenes	TRUE
21.3	Obesity is characterized by tumour formation.	FALSE
	Cancer is characterized by tumour formation.	CORRECTED STATEMENT

SL.NO	QUESTION	TRUE/FALSE
21.4	In leukemia both WBCs and RBCs increase in number	FALSE
	In leukemia WBCs increase in number	CORRECTED STATEMENT
21.5	Study of cause of disease is called etiology	TRUE
21.6	AIDS is not transmitted by contact with a patient's clothes	TRUE
21.7	Type 2 diabetes mellitus results due to insulin deficiency.	FALSE
	Type 1 diabetes mellitus results due to insulin deficiency.	CORRECTED STATEMENT
21.8	Carcinogens are cancer causing agents.	TRUE
21.9	Nicotine is a narcotic drug.	FALSE
	Nicotine is a addictive drug.	CORRECTED STATEMENT
21.10	Cirrhosis is associated with brain disorder	FALSE
	Cirrhosis is associated with liver disorder	CORRECTED STATEMENT
22.1	Biogas is a fossil fuel	FALSE
	Petroleum is a fossil fuel	CORRECTED STATEMENT
22.2	Planting trees increases the groundwater level.	TRUE
22.3	Habitat destruction cause loss of wild life	TRUE
22.4	Nuclear energy is a renewable energy	FALSE
	Nuclear energy is a non-renewable energy	CORRECTED STATEMENT
22.5	Overgrazing prevents soil erosion.	FALSE
	Overgrazing leads soil erosion.	CORRECTED STATEMENT
22.6	Poaching of wild animals is a legal act.	FALSE
	Poaching of wild animals is a illegal act.	CORRECTED STATEMENT
22.7	National park is a protected park.	TRUE
22.8	Wild life protection act was established in 1972.	TRUE

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