

CLASS & SEC:	10 SCIENCE E/M	TEST NO	1
LESSON		DATE	
		MARK	30

Answer in briefly 10 x 2 = 20

1. Define inertia. Give its classification.
2. Classify the types of force based on their application.
3. If a 5 N and a 15 N forces are acting opposite to one another. Find the resultant force and the direction of action of the resultant force
4. Differentiate mass and weight.
5. Define moment of a couple.
6. State the principle of moments.
7. State Newton's second law.
8. Why a spanner with a long handle is preferred to tighten screws in heavy vehicles?
9. While catching a cricket ball the fielder lowers his hands backwards. Why?
10. How does an astronaut float in a space shuttle?

Answer in detail: 2 x 5 = 10

11. What are the types of inertia? Give an example for each type.
12. State Newton's laws of motion?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	2
LESSON		DATE	
		MARK	30

Answer Briefly 10 x 2 = 20

1. What is refractive index?
2. State Snell's law.
3. Draw a ray diagram to show the image formed by a convex lens when the object is placed between F and 2F.
4. Define dispersion of light
5. State Rayleigh's law of scattering

6. Differentiate convex lens and concave lens.
7. What is power of accommodation of eye?
8. What are the causes of 'Myopia'?
9. Why does the sky appear in blue colour?
10. Why are traffic signals red in colour?

Answer in detail: 2 x 5 = 10

11. Deduce the equation of a force using Newton's second law of motion.
12. State and prove the law of conservation of linear momentum.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	3
LESSON		DATE	
		MARK	30

Answer in briefly 10 x 2 = 20

1. Define one calorie.
2. Distinguish between linear, arial and superficial expansion.
3. What is co-efficient of cubical expansion?
4. State Boyle's law. Write equation.
5. State-the law of volume. Write equation
6. Distinguish between ideal gas and real gas.
7. What is co-efficient of real expansion?
8. What is co-efficient of apparant expansion?
9. Define : Thermal equilibrium.
10. State Avagadro's law. Write equation

Answer in detail: 2 x 5 = 10

11. Describe rocket propulsion.
- 12.. State the universal law of gravitation and derive its mathematical expression.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	4
LESSON		DATE	
		MARK	30

Answer Briefly 10 x 2 = 20

1. Define the unit of current.
2. What happens to the resistance, as the conductor is made thicker?
3. Why is tungsten metal used in bulbs, but not in fuse wires?
4. Name the devices, which are working on the heating effect of the electric current.
5. Define electric potential and potential difference.
6. What is the role of the earth wire in domestic circuits?
7. State Ohm's law.
8. Distinguish between the resistivity and conductivity of a conductor.
9. What connection is used in domestic appliances and why?
10. Define : Electric current.

Answer in detail: 2 x 5 = 10

11. Give the applications of universal law gravitation.
12. List the properties of light.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	5
LESSON		DATE	
		MARK	30

Answer very briefly 10 x 2 = 20

1. What is a longitudinal wave?
2. What is the audible range of frequency, infrasonics and ultrasonics.?
3. What is an echo? What is the minimum distance needed for an echo?
4. What will be the frequency sound having 0.20 m as its wavelength, when it travels with a speed of 331 m s^{-1} ?
5. Name three animals, which can hear ultrasonic vibrations.

6. Why does sound travel faster on a rainy day than on a dry day?
7. Why does an empty vessel produce more sound than a filled one?
8. Air temperature in the Rajasthan desert can reach 46°C . What is the velocity of sound in air at that temperature? ($V_0 = 331 \text{ m s}^{-1}$)
9. Explain why, the ceilings of concert halls are curved.
10. Mention two cases in which there is no Doppler effect in sound?

Answer in detail: 2 x 5 = 10

11. Differentiate the eye defect: Myopia and Hypermetropia.
12. Explain the construction and working of "Compound microscope"

CLASS & SEC:	10 SCIENCE E/M	TEST NO	6
LESSON		DATE	
		MARK	16

Answer in one or two word (VSA -- 11X1 =11)

1. Who discovered natural radioactivity?
2. Which radioactive material is present in the ore of pitchblende?
3. Write any two elements which are used for inducing radioactivity?
4. Write the name of the electromagnetic radiation which is emitted during a natural radioactivity.
5. If A is a radioactive element which emits an α - particle and produces ${}_{104}\text{Rf}^{259}$. Write the atomic number and mass number of the element A.
6. What is the average energy released from a single fission process?
7. Which hazardous radiation is the cause for the genetic disease?
8. What is the amount of radiation that may cause death of a person when exposed to it?
9. When and where was the first nuclear reactor built?
10. Give the SI unit of radioactivity.
11. Which material protects us from radiation?

Answer in detail: (1X5=5)

12. Explain the rules for obtaining images formed by a convex lens with the help of ray diagram.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	7
LESSON		DATE	
		MARK	30

Answer briefly 10 x 2 = 20

1. Write any three features of natural and artificial radioactivity.
2. Define critical mass.
3. Define one roentgen.
4. State Soddy and Fajan's displacement law.
5. Give the function of control rods in a nuclear reactor.
6. In Japan, some of the new born children are having congenital diseases. Why?
7. Mr. Ramu is working as an X - ray technician in a hospital. But, he does not wear the lead aprons. What suggestion will you give to Mr. Ramu?
8. What is stellar energy?
9. Give any two uses of radio isotopes in the field of agriculture?
10. List the uses of radio isotopes in medicine field.

Answer in detail: 2 x 5 = 10

11. Derive the ideal gas equation.
12. Explain the experiment of measuring the real and apparent expansion of a liquid with a neat diagram.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	8
LESSON		DATE	
		MARK	30

Answer briefly 10 x 2 = 20

1. Define: Relative atomic mass.
2. Write the different types of isotopes of oxygen and its percentage abundance.
3. Define: Atomicity.
4. Give any two examples for hetero diatomic molecules.

5. What is Molar volume of a gas?
6. Find the percentage of nitrogen in ammonia.
7. A is a reddish brown metal, which combines with O₂ at < 1370 K gives B, a black coloured compound. At a temperature > 1370 K, A gives C which is red in colour. Find A,B and C with reaction.
8. A is a silvery white metal. A combines with O₂ to form B at 800oC, the alloy of A is used in making the aircraft. Find A and B
9. What is rust? Give the equation for formation of rust.
10. State two conditions necessary for rusting of iron.

Answer in detail: 2 x 5 = 10

11. With the help of a circuit diagram derive the formula for the resultant resistance of three resistances connected: a) in series and b) in parallel
12. a) What is meant by electric current? b) Name and define its unit. c) Which instrument is used to measure the electric current? How should it be connected in a circuit?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	9
LESSON		DATE	
		MARK	30

Answer briefly. 10 x 2 = 20

1. Define the term: Solution
2. What is mean by binary solution
3. Give an example each i) gas in liquid ii) solid in liquid iii) solid in solid iv) gas in gas
4. What is aqueous and non-aqueous solution? Give an example.
5. Define Volume percentage
6. The aquatic animals live more in cold region Why?
7. Define Hydrated salt.

8. A hot saturated solution of copper sulphate forms crystals as it cools. Why?

9. Classify the following substances into deliquescent, hygroscopic. Conc. Sulphuric acid, Copper sulphate penta hydrate, Silica gel, Calcium chloride, and Gypsum salt.

10. Define concentration of a solution.

Answer in detail: 2 x 5 = 10

11. a) State Joule's law of heating. b) An alloy of nickel and chromium is used as the heating element. Why?

c) How does a fuse wire protect electrical appliances?

12. Explain about domestic electric circuits.

(circuit diagram not required)

CLASS & SEC:	10 SCIENCE E/M	TEST NO	10
LESSON		DATE	
		MARK	30

Answer briefly 10 x 2 = 20

1. When an aqueous solution of potassium chloride is added to an aqueous solution of silver nitrate, a white precipitate is formed. Give the chemical equation of this reaction.

2. Why does the reaction rate of a reaction increase on raising the temperature?

3. Define combination reaction. Give one example for an exothermic combination reaction.

4. Differentiate reversible and irreversible reactions.

5. Name the simplest ketone and give its structural formula.

6. Classify the following compounds based on the pattern of carbon chain and give their structural formula: (i) Propane (ii) Benzene (iii) Cyclobutane (iv) Furan

7. How is ethanoic acid prepared from ethanol? Give the chemical equation.

8. How do detergents cause water pollution? Suggest remedial measures to prevent this pollution?

9. Differentiate soaps and detergents.

10. What is Photolysis? Give example.

Answer in detail: 2 x 5 = 10

11. a) What are the advantages of LED TV over the normal TV?

b) List the merits of LED bulb.

12. What are the factors that affect the speed of sound in gases?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	11
LESSON		DATE	
		MARK	15

Answer in detail: 3 x 5 = 15

1. What is meant by reflection of sound? Explain:

a) reflection at the boundary of a rarer medium

b) reflection at the boundary of a denser medium

c) Reflection at curved surfaces

2. a) What do you understand by the term 'ultrasonic vibration'?

b) State three uses of ultrasonic vibrations.

c) Name three animals which can hear ultrasonic vibrations.

3. What is an echo?

a) State two conditions necessary for hearing an echo.

b) What are the medical applications of echo?

c) How can you calculate the speed of sound using echo?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	12
LESSON		DATE	
		MARK	20

Answer in detail: 4x 5 = 20

- 1.Explain the process of controlled and uncontrolled chain reactions.
2. Compare the properties of alpha, beta and gamma radiations.
3. What is a nuclear reactor? Explain its essential parts with their functions.
- 4.Compare : Nuclear fission and nuclear fusion.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	13
LESSON		DATE	
		MARK	25

Answer in detail: 5x 5 = 25

1. Calculate the number of water molecule present in one drop of water which weighs 0.18 g.
2. $N_2 + 3 H_2 \rightarrow 2 NH_3$
(The atomic mass of nitrogen is 14, and that of hydrogen is 1)
1 mole of nitrogen (_____g) +
3 moles of hydrogen (_____ g) →
2 moles of ammonia (_____ g)
3. Calculate the number of moles in
i) 27g of Al ii) 1.51×10^{23} molecules of NH_4Cl
4. Give the salient features of "Modern atomic theory".
5. Derive the relationship between Relative molecular mass and Vapour density.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	14
LESSON		DATE	
		MARK	20

Answer in detail: 4x 5 = 20

1. a) State the reason for addition of caustic alkali to bauxite ore during purification of bauxite.
b) Along with cryolite and alumina, another substance is added to the electrolyte mixture. Name the substance and give one reason for the addition.
2. The electronic configuration of metal A is 2,8,18,1.
The metal A when exposed to air and moisture forms B a green layered compound.A with con. H_2SO_4 forms C and D along with water. D is a gaseous compound. Find A,B,C and D.
3. Explain smelting process.
4. Write notes on i) saturated solution ii) unsaturated solution

CLASS & SEC:	10 SCIENCE E/M	TEST NO	15
LESSON		DATE	
		MARK	25

Answer in detail: 5x 5 = 25

- 1.A solution is prepared by dissolving 45 g of sugar in 180 g of water. Calculate the mass percentage of solute.
2. 3.5 litres of ethanol is present in 15 litres of aqueous solution of ethanol. Calculate volume percent of ethanol solution.
3. Write notes on various factors affecting solubility.
4. a) What happens when $MgSO_4 \cdot 7H_2O$ is heated? Write the appropriate equation. b) Define solubility
5. In what way hygroscopic substances differ from deliquescent substances.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	16
LESSON		DATE	
		MARK	25

Answer in detail: 5 x 5 = 25

1. What are called thermolysis reactions?
2. Explain the types of double displacement reactions with examples.
3. Explain the factors influencing the rate of a reaction
4. How does pH play an important role in everyday life?
5. What is a chemical equilibrium? What are its characteristics?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	17
LESSON		DATE	
		MARK	25

Answer in detail: 5 x 5 = 25

1. What is called homologous series? Give any three of its characteristics?
2. Arrive at, systematically, the IUPAC name of the compound:
CH₃-CH₂-CH₂-OH.
3. How is ethanol manufactured from sugarcane?
4. Give the balanced chemical equation of the following reactions:
 - (i) Neutralization of NaOH with ethanoic acid.
 - (ii) Evolution of carbon dioxide by the action of ethanoic acid with NaHCO₃.
 - (iii) Oxidation of ethanol by acidified potassium dichromate.
 - (iv) Combustion of ethanol.

5. Explain the mechanism of cleansing action of soap.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	18
LESSON		DATE	
		MARK	30

Answer briefly: 10 X 2 = 20

1. Give an account on vascular bundle of dicot stem.
2. Write a short note on mesophyll.
3. Draw and label the structure of oxysomes.
4. Name the three basic tissues system in flowering plants.
5. What is photosynthesis and where in a cell does it occur?
6. What is respiratory quotient?
7. Why should the light dependent reaction occur before the light independent reaction?
8. Write the reaction for photosynthesis?
9. Compare the functions of tissue system.
10. What are plastids? State the types.
11. Differentiate the following: a) Monocot root and Dicot root
b) Aerobic and Anaerobic respiration
12. Describe and name three stages of cellular respiration that aerobic organisms use to obtain energy from glucose.

Answer in detail: 2 x 5 = 10

CLASS & SEC:	10 SCIENCE E/M	TEST NO	19
LESSON		DATE	
		MARK	30

Answer in a sentence (10X1=10)

1. Give the common name of the *Hirudinaria granulosa*.
2. How does leech respire?

3. Write the dental formula of rabbit.
4. How many pairs of testes are present in leech?
5. How is diastema formed in rabbit?
6. What organs are attached to the two bronchi?
7. Which organ acts as suction pump in leech?
8. What does CNS stand for?
9. Why is the teeth of rabbit called heterodont?
10. How does leech suck blood from the host?

II. Answer briefly: 10x2=20

1. Why are the rings of cartilages found in trachea of rabbit?
2. List out the parasitic adaptations in leech.
3. State the Taxonomic position of leech and rabbit.
4. State the uses of suckers of leech.
5. What the modes of locomotion of leech. Define.
6. Write short notes on dentition in rabbit.
7. Draw the diagram of lungs of rabbit. Label the parts also.
8. Draw the labelled diagram of male reproductive system of rabbit.
9. Draw the labelled diagram of female reproductive system of rabbit.
10. Draw the labelled diagram of brain of rabbit.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	20
LESSON		DATE	
		MARK	40

I. Answer in a word or sentence / Answer briefly 20x2=40

1. a) Name two layered protective covering of human heart.
b) What is the shape of RBC in human blood?
2. a) Why is the colour of the blood red?
b) Which kind of cells are found in the lymph?
3. a) Name the heart valve associated with the major arteries leaving the ventricles.
b) Mention the artery which supplies blood to the heart muscle.

4. What causes the opening and closing of guard cells of stomata during transpiration?
5. What is cohesion?
6. Trace the pathway followed by water molecules from the time it enters a plant root to the time it escapes into the atmosphere from a leaf.
7. What would happen to the leaves of a plant that transpires more water than its absorption in the roots?
8. Describe the structure and working of the human heart.
9. Why is the circulation in man referred to as double circulation?
10. What are heart sounds? How are they produced?
11. What is the importance of valves in the heart?
12. Who discovered Rh factor? Why was it named so?
13. How are arteries and veins structurally different from one another?
14. Why is the Sinoatrial node called the pacemaker of heart?
15. Differentiate between systemic circulation and pulmonary circulation.
16. The complete events of cardiac cycle last for 0.8 sec. What is the timing for each event?
17. Why does mammalian RBC lack cell organelles and nucleus?
18. State any four functions of blood.
19. Differentiate hypertension and hypotension.
20. State the functions of Lymph.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	21
LESSON		DATE	
		MARK	30

I. Answer briefly 15 x 2 = 30

1. Define stimulus.
2. Name the parts of the hind brain.
3. What are the structures involved in the protection of brain?
4. Give an example for conditioned reflexes.

5. Which acts as a link between the nervous system and endocrine system?
6. Define reflex arc.
7. Differentiate between :Voluntary and involuntary actions.
8. Differentiate between :Medullated and non-medullated nerve fibre.
9. Draw the structure of neuron with parts.
10. Draw the diagrams of types of neurons on the basis of structure.
11. Draw the structure of brain and lable the parts.
12. What is cerebrospinal fluid? state its function.
13. Define unipolar, bipolar and multipolar neurons.
14. Where does we found unipolar, bipolar and multipolar neurons.
15. What are neurotransmitters?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	22
LESSON		DATE	
		MARK	20

Answer in detail: 4 x 5 = 20

1. How is the circulatory system designed in leech to compensate the heart structure ?
2. How does locomotion take place in leech?
3. Explain the male reproductive system of rabbit with a labelled diagram.
4. How does the light dependent reaction differ from the light independent reaction? What are the end product and reactants in each? Where does each reaction occur within the chloroplast?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	23
LESSON		DATE	
		MARK	20

I .Answer in a word or sentence. 10x 1 =10

1. Which hormone promotes the production of male flowers in Cucurbits?
2. Write the name of a synthetic auxin.
3. Which hormone induces parthenocarpy in tomatoes?
4. What is the hormone responsible for the secretion of milk in female after child birth?
5. Name the hormones which regulates water and mineral metabolism in man.
6. Which hormone is secreted during emergency situation in man?
7. Which gland secretes digestive enzymes and hormones?
8. Name the endocrine glands associated with kidneys.
9. Write the name of a natural auxin.
10. What is meant by parthenocarpic fruits.

I. Answer briefly 5x2=10

11. Draw the diagram of thyroid gland. Lable the parts.
12. State the reason for the cause of i)dwarfism ii)gigantism iii)acromegaly
13. What are the functions of thyroid hormones?
14. Name the diseases caused due to thyroid dysfunction with reason?
15. Draw the diagram of pancreas and lable the parts.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	24
LESSON		DATE	
		MARK	30

I Short answer questions.10x2=20

1. What are synthetic auxins? Give examples.
2. What is bolting? How can it be induced artificially?
3. Bring out any two physiological activities of abscisic acid
4. What will you do to prevent leaf fall and fruit drop in plants? Support your answer with reason.
5. What are chemical messengers?
6. Write the differences between endocrine and exocrine gland.
7. What is the role of parathormone?
8. What are the hormones secreted by posterior lobe of the pituitary gland? Mention the tissues on which they exert their effect.
9. Why are thyroid hormones referred as personality hormone?
10. Which hormone requires iodine for its formation? What will happen if intake of iodine in our diet is low?

II. Answer in detail: 2x5=10

11. How do plants absorb water? Explain.
12. What is transpiration? Give the importance of transpiration.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	25
LESSON		DATE	
		MARK	25

I. Answer in a word or sentence.10x1=10

1. If one pollen grain produces two male gametes, how many pollen grains are needed to fertilize 10 ovules?
2. In which part of the flower germination of pollen grains takes place?
3. Name two organisms which reproduce through budding.
4. Mention the function of endosperm.

5. Name the hormone responsible for the vigorous contractions of the uterine muscles.
6. What is the enzyme present in acrosome of sperm?
7. When is World Menstrual Hygiene Day observed?
8. What is the need for contraception ?
9. Name the part of the human female reproductive system where the following occurs. a. Fertilization b. Implantation.
- 10.State four phases of menstrual cycle.

II. Answer in detail:3x5=15

1. Why are leucocytes classified as granulocytes and agranulocytes? Name each cell and mention its functions.
2. Differentiate between systole and diastole. Explain the conduction of heart beat.
3. Enumerate the functions of blood.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	26
LESSON		DATE	
		MARK	40

I. Short answer question.15x2=30

1. What will happen if you cut planaria into small fragments?
2. Why is vegetative propagation practiced for growing some type of plants?
3. How does binary fission differ from multiple fission?
4. Define triple fusion.
5. Write the characteristics of insect pollinated flowers.
6. Name the secondary sex organs in male
7. What is colostrum? How is milk production hormonally regulated ?
8. How can menstrual hygiene be maintained during menstrual days?
9. How does developing embryo gets its nourishment inside the mother's body?

10. Identify the parts A, B, C and D



11. Write the events involved in the sexual reproduction of a flowering plant.

- Discuss the first event and write the types.
 - Mention the advantages and the disadvantages of that event.
12. Why are the human testes located outside the abdominal cavity? Name the pouch in which they are present .

13. Luteal phase of the menstrual cycle is also called the secretory phase. Give reason.

14. Why are family planning methods not adopted by all the people of our country?

15. Draw the structure of human sperm.

II. Answer in detail: 2x5=10

16. With a neat labelled diagram explain the structure of a neuron.

17. Illustrate the structure and functions of brain.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	27
LESSON		DATE	
		MARK	40

I. Answer in a sentence 20x 2 = 40

- What is a cross in which inheritance of two pairs of contrasting characters are studied?
- Name the conditions when both the alleles are identical?

3. A garden pea plant produces axial white flowers. Another of the same species produced terminal violet flowers. Identify the dominant trait?

4. What is the name given to the segments of DNA, which are responsible for the inheritance of a particular character?

5. Name the bond which binds the nucleotides in a DNA.

6. Why did Mendel select pea plant for his experiments?

7. What do you understand by the term phenotype and genotype?

8. What are allosomes?

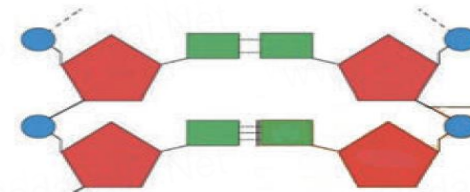
9. What are Okazaki fragments?

10. Why is euploidy considered to be advantageous to both plants and animals?

11. A pure tall plant (TT) is crossed with pure dwarf plant (tt), what would be the F1 and F2 generations? Explain.

12. Explain the structure of a chromosome.

13. Label the parts of the DNA in the diagram given below. Explain the structure briefly.



14. State law of dominance.

15. State law of segregation.

16. Draw the structure of chromosome.

17. Name and Draw the types of chromosomes based on position of centromere.

18. Define i) Euploidy ii) triploidy iii) tetraploidy

19. Define: Aneuploidy & types.

20. How down's syndrome causes?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	28
LESSON		DATE	
		MARK	20

Answer briefly 4 x 5 = 20

1. What will you do if someone pricks your hand with a needle? Elucidate the pathway of response with a neat labelled diagram.
2. Describe the structure of spinal cord.
3. How nerve impulses are transferred from one neuron to next neuron?
4. Classify neurons based on its structure.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	29
LESSON		DATE	
		MARK	20

Answer briefly 4 x 5 = 20

1. (a) Name the gaseous plant hormone. Describe its three different actions in plants. (b) Which hormone is known as stress hormone in plants ? Why?
2. Describe an experiment which demonstrates that growth stimulating hormone is produced at the tip of coleoptile.
3. Write the physiological effects of gibberellins.
4. Where are estrogens produced? What is the role of estrogens in the human body?
5. What are the conditions which occur due to lack of ADH and insulin? How are the conditions different from one another?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	30
LESSON		DATE	
		MARK	25

Answer briefly 5 x 5 = 25

1. With a neat labelled diagram describe the parts of a typical angiospermic ovule.
2. What are the phases of menstrual cycle? Indicate the changes in the ovary and uterus.
3. Explain with an example the inheritance of dihybrid cross. How is it different from monohybrid cross?
4. How is the structure of DNA organised? What is the biological significance of DNA?
5. The sex of the new born child is a matter of chance and neither of the parents may be considered responsible for it. What would be the possible fusion of gametes to determine the sex of the child?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	31
LESSON		DATE	
		MARK	31

I Short answers questions (9x1=9)

1. A human hand, a front leg of a cat, a front flipper of a whale and a bat's wing look dissimilar and adapted for different functions. What is the name given to these organs?
2. Which organism is considered to be the fossil bird?
3. What is the study of fossils called?
4. Give the name of wheat variety having higher dietary fibre and protein.

5. Semi-dwarf varieties were introduced in rice. This was made possible by the presence of dwarfing gene in rice. Name this dwarfing gene.

6. Define genetic engineering.

7. Name the types of stem cells.

8. What are transgenic organisms?

9. State the importance of biofertiliser.

II Short answers questions (11x2 =22)

1. Discuss the method of breeding for disease resistance.

2. Name three improved characteristics of wheat that helped India to achieve high productivity.

3. Name two maize hybrids rich in amino acid lysine

4. Distinguish between a). somatic gene therapy and germ line gene therapy b). undifferentiated cells and differentiated cells

5. State the applications of DNA fingerprinting technique.

6. How are stem cells useful in regenerative process?

7. Differentiate between outbreeding and inbreeding.

8. The degenerated wing of a kiwi is an acquired character. Why is it an acquired character?

9. Why is Archaeopteryx considered to be a connecting link?

10 Define Ethnobotany and write its importance.

11. How can you determine the age of the fossils?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	32
LESSON		DATE	
		MARK	20

Answer in detail: 4 x 5 = 20

1. Natural selection is a driving force for evolution-How?

2. How do you differentiate homologous organs from analogous organs?

3. How does fossilization occur in plants?

4.State the importance of i)fossils ii)ethnobotany.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	33
LESSON		DATE	
		MARK	30

I.Answer in a sentence 15 x 2 = 30

1. What are psychotropic drugs ?

2. Mention the diseases caused by tobacco smoke.

3. What are the contributing factors for Obesity?

4. What is adult onset diabetes?

5. What is metastasis?

6. How does insulin deficiency occur?

7. What are the various routes by which transmission of human immuno deficiency virus takes place ?

8 How is a cancer cell different from a normal cell ?

9. Differentiate between Type-1 and Type-2 diabetes mellitus

10. Why is a dietary restriction recommended for an obese individual ?

11. What precautions can be taken for preventing heart diseases ?

12.What is meant by drug abuse?

13.State and define the types of cancers.

14.How HIV is transmitted ?

15.Name the carcinogenic agents of cancer.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	34
LESSON		DATE	
		MARK	30

V.Answer in a sentence 15 x 2 = 30

1.What will happen if trees are cut down?

2.What would happen if the habitat of wild animals is disturbed?

3.What are the agents of soil erosion?

4.Why fossil fuels are to be conserved?

5.Solar energy is a renewable energy. How?

- 6.How are e-wastes generated?
- 7.What is the importance of rainwater harvesting?
- 8.What are the advantages of using biogas?
- 9.What are the environmental effect caused by sewage?
- 10.What are the consequences of deforestation?
- 11.What are fossil fuels? How are they formed?
- 12.What is Scratch?
- 13.Write a short note on editor and its types?
- 14.What is Stage?
- 15.What is Sprite?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	35
LESSON		DATE	
		MARK	25

Answer in detail:5 x 5 = 25.

- 1. What are the effects of hybrid vigour in animals
- 2. Describe mutation breeding with an example.
- 3. Biofortification may help in removing hidden hunger. How?
- 4. With a neat labelled diagram explain the techniques involved in gene cloning.
- 5. Discuss the importance of biotechnology in the field of medicine.

CLASS & SEC:	10 SCIENCE E/M	TEST NO	36
LESSON		DATE	
		MARK	20

Answer in detail:4 x 5 = 20.

- 1.Suggest measures to overcome the problems of an alcoholic.
- 2. Changes in lifestyle is a risk factor for occurrence of cardiovascular diseases. Can it be modified ? If yes, suggest measures for prevention.
- 3. How does rainwater harvesting structures recharge ground water?
- 4. How will you prevent soil erosion?

CLASS & SEC:	10 SCIENCE E/M	TEST NO	37
LESSON		DATE	
		MARK	20

Answer in detail:4 x 5 = 20.

- 1. What are the sources of solid wastes? How are solid wastes managed?
- 2. Enumerate the importance of forest.
- 3. What are the consequences of soil erosion?
- 4. Why is the management of forest and wildlife resource considered as a challenging task?

NAME			CELL NO	
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TEST NO	DATE	MARKS	TEACHER'S SIGN	PARENT'S SIGN
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CHEMISTRY				
BIOLOGY				
	ASS/REA	BB SUM	EX.SUM	DIAGRAM
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CHEMISTRY				
BIOLOGY				

**SRI SARASWATHI PATASALA GIRLS'
HIGHER SECONDARY SCHOOL,
KUMBAKONAM.**



10th STANDARD SCIENCE DAILY TEST QUESTION BANK.
BOOK BACK QUESTIONS ONLY.



1	Laws of Motion
2	Optics
3	Thermal Physics
4	Electricity
5	Acoustics
6	Nuclear Physics
7	Atoms and Molecules
8	Periodic Classification of Elements
9	Solutions
10	Types of Chemical Reactions
11	Carbon and its Compounds
12	Plant Anatomy and Plant Physiology
13	Structural Organisation of Animals
14	Transportation in Plants and Circulation in Animals
15	Nervous System
16	Plant and Animal Hormones
17	Reproduction in Plants and Animals
18	Heredity
19	Origin and Evolution of Life
20	Breeding and Biotechnology
21	Health and Diseases
22	Environmental Management
23	Visual Communication