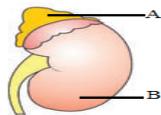


X - STANDARD**IMPORTANT TWO MARK QUESTION****BIOLOGY**

- Do you agree with the following statements. It not give the correct statement.
 - Gregor johann mental worked out the first scientific experimental study on heredity.
 - About 75,000, 10,000 years ago the modern Homo sapience arose.
- Sequentially arrange the different species of man from primitive to modern man.
(Neanderthal man, Homo habilis, Homo erectus, Homo sapiens)
- Identical twins are syngeneic with similar chromosomal contents. Natural clones are those who posses identical chromosomes.
 - Identical twins are _____ (natural clones / identical clone)
 - Identical twins are _____(dissimilar to each other / similar to each other)
- The inheritable characters vary in different species and within the same species.
Name the variation in the following cases.
The eye colour among the human beings are varied as blue,black,brown,green,
 - This is called as _____variation.
 The dentition in the rabbit and the elephant are not the same.
 - This is called as _____ variation.
- Do you agree with the following statements. It not give the correct statement.
Somatic variation pertain to body cells and it is inherited.
The genotypes of a character is influenced by factors called chromosome.
- A list of disorders are given below. Pick out the odd one out and give reasons.
(Thalassemia, haemophilia, night blindness, albinism, sickle cell anaemia)
- Marasmus and Kwashiorkar are both protein deficiency defects. Marasmus differs from Kwashiorkar in enlarged belly and swelling in the face. Are these symptoms for the above diseases correct? If not, correct it.
- Kavitha is suffering from common cold. What are the question you will put forth to kavitha to conform the diseases?
- Copy the diagram given below and write the names of A and B.



- The diagram is of the human brain. And label A and B.
A. Seat of smell B. Seat of vision



- Correct the statements, if they are wrong.
 - Alpha cells produce insulin and beta cells produce glucagon.
 - Ovary produces eggs and androgen.
- Based on relationship fill in the blanks..
Thyroxin : Personality hormone
Adrenaline : _____

13. Copy the diagram and label any two parts in the group given:
(cyton, axon, dendron, terminal branches)



14. Pick out the item which has sequential arrangement.
- zygotene -> Leptotene -> Pachytene -> Diplotene -> Diakinesis
 - Diakinesis -> zygotene -> Leptotene -> Pachytene -> Diplotene
 - Leptotene -> zygotene -> Pachytene -> Diplotene -> Diakinesis

15. Consider the following statements.

Assertion(A) :The secretion of pituitary gland controls all other endocrine gland.

Reason (R) : It is known as the conductor of endocrine orchestra.

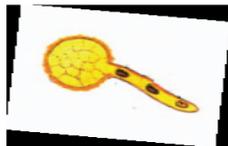
16. Match the type of reproduction with the suitable organism.

Fission	Spirogyra	Yeast
Budding	Protozoans	Flatworms
Fragmentation	Bryophyllum	Bacteria

17. Draw the given diagram and label the following parts:

i)Exine

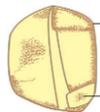
ii) Tube nucleus.



18. In balsam plant the seed fall off for away from the mother plant.

- Is this statement correct or incorrect?
- Give reason

19. Draw the given diagram of paddy seed and label any two parts.



20. Fill in the blanks.

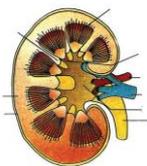
Sensitive whiskers are found in _____.

The tusks of elephants are modified _____

21. Fill in the tabular column.

Excretory organ	Sent out as	Excretory products
Lungs	Expired air	_____
Skin	Sweat	_____

22. Draw the given diagram of L.S of kidney and label the parts.

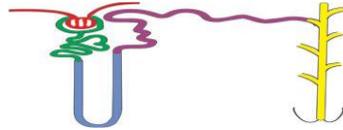


23. Based on relationship fill in the blanks..

Whale : Baleen plates.

Bat : _____

24. Draw the diagram and label the parts.



25. Fill in the blanks.

Plasma : Fibrinogen

RBC : _____

WBC : _____

26. an animal which has a four-chambered stomach _____

Normal body temperature of man is _____

27. The Master chemists of our body are the kidneys. Justify.

28. Based on modifications, make the pairs:

1. incisor: tusks of elephant;

2. _____ : quills of porcupine

29. The epidermis of mammals contains _____ .

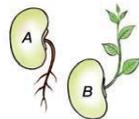
i) hair, bristles, quills ii) hair, nails, claws

iii) hair, bristles, horns iv) hair, nails, scales

30. Observe the diagram

i) Mention the type of movements shown in figure A and B.

ii) How does this movement differ from the movement of mimosa?



31. In human beings, air enters into the body through _____ and moves into _____. In fishes, water enters into the body through _____ and the dissolved oxygen diffuses into _____.

32. Pick out the odd one : The parts of the alimentary canal are

i) pharynx ii) mouth iii) buccal cavity iv) pancreas

33. In the process of anaerobic respiration, _____ is a 6 carbon compound which gets converted into _____ carbon compound called lactic acid.

34. Sugar is converted into alcohol. In the above reaction

a) what kind of process takes place?

b) Which micro-organism is involved?

35. Match the methods of nutrition of special organs with suitable examples:

Autotrophs	Mycorrhiza	Cuscutta
Parasites	chlorophyll	Monotropa
Saprophytes	Haustoria	Hibiscus

36. Study the food chain below, correct it and convert it into a pyramid of energy.

Mulberry -> Sparrow -> Caterpillar -> Kite

37. a) Example for product of green chemistry is _____.

b) _____ is a green house gas which causes climate change and global warming.

38. Name the plants which are used in the production of bio plastic.

39. Study the food chain below, correct it and convert in to a pyramid of energy. (snake, grass, eagle, frog, grasshopper)

40. A : Assertion : Petroleum is called as black gold.
R : Reason : There are used in manufacture of detergents, fibres, polythene and other plastic product.
- A is correct R is wrong
 - A is correct R is correct
 - A is wrong R is correct
 - A is wrong R is wrong
41. Pick the odd one out.
- Plant, grasshopper, frog, tiger, snake
 - Anamalai, point calimere, vedanthangal, mundanthurai.
42. Find the odd one out:
- bio-alcohol, green diesel, bio-ethers, petroleum
 - cholera, typhoid, scabies, dysentery
43. Pick out the appliances that can conserve electric energy.
Florescent bulbs, copper choke, solar water heater, electric water heater, tungstenbulbs, electronic choke.
44. Correct the statement.
- Butane is the chief component of natural gas.
 - Coal, petroleum and Natural gas are renewable resources.
45. Correct the statement.
- The settled and floating material are removed by the secondary treatment method.
 - Butane is the chief component of natural gas.
46. A non-renewable resource is a natural resource, if it is replaced by natural process at a rate equal to or faster than its rate of consumption by humans.
Read this statement and say whether it is correct or incorrect. If it is incorrect, give the
47. Match the suitable renewable and non-renewable sources.
- | Sources | A | B | C |
|----------------|----------|------------|-------------|
| Renewable | Coal | Wind | Petroleum |
| Non- Renewable | Hydrogen | Naturalgas | Solarenergy |
48. An example of water-borne disease is _____.
_____ is the chief component of natural gas.
49. Write any four liquid bio fuels for transportations.
50. What are the benefits of the household waste water recycling systems?

SSLC science important (5Mark questions)

(Zoology)

CHAPTER – II

1. Kala has delivered a baby,
 - i) Suggest the immunization schedule for the baby, in the first six months.
 - ii) What are the diseases that can be cured as per the schedule?
2. There is a widespread outbreak of malaria in your area.
 - i) Suggest some controlling measures to the local authorities concerned.
 - ii) Pick out the right symptom for malaria.
(chills, shivering and a rise in temperature / diarrhoea)
3. 15th October is observed as 'Handwashing Day' .
 - i) Tell your friend the effects of hand washing.
 - ii) How frequently do you wash your hands everyday and when?

CHAPTER – III

4. Kala has delivered a baby,
 - i) Suggest the immunization schedule for the baby, in the first six months.
 - ii) What are the diseases that can be cured as per the schedule?
5. What is immunity? Write a note on the various types of immunity.
6. List out the various diseases caused due to nutritional deficiency. Add a note on their symptoms.

(BOTANY)

CHAPTER – IV

7. i) Fruit is the product of fertilization. Is there any fruit which is formed without the act of fertilization?
 - ii) Represent the classification of fruits in a diagrammatic sketch.
8. Describe the structure of a dicot seed.
9. Write the two events involved in the sexual reproduction of a flowering plant.
 - i) Discuss the first event and write the types.
 - ii) Mention the advantages and the disadvantages of that event.
10. i) Name the process by which a fruit is developed.
 - ii) Explain the development process in brief.

iii) Draw a neat, labelled diagram of that process.

11. Compare aggregate fruits with multiple fruits and give suitable examples.

CHAPTER –VII

12. We are surrounded by smoke. Is this situation good for our health. Give reason.

13. i)What is green chemistry.

ii)Write any two principles of green chemistry.

iii)Mention some of the products produced by the process of green chemistry.

14. In your locality people are affected due to water scarcity. What measures will you take to deal with the problem of water scarcity?

15. i) Classify the following substances – wood, paper, plastic and grass.

ii) Give a detailed account of your classification.

CHEMISTRY

CHAPTER –X

13. i)State any three finding of modern atomic theory.

ii)Write down any two application of Avogadro's law.

CHAPTER –XIII

14. Write the common name and IUPAC name of the following:

i) $\text{CH}_3\text{CH}_2\text{CHO}$

ii) CH_3COCH_3

iii) $\text{CH}_3 - \text{CH} - \text{CH}_3$

iv) CH_3COOH

v) HCHO

I

OH

15. Ethanol is heated with excess concentrated H_2SO_4 at 443K.

i) Name the reaction that occurs and explain it.

ii) Write the equation for the above reaction.

iii) What is the product formed? What happens when this gas is passed through bromine water?

iv) When ethanol vapour is passed through bromine water, why does no change occur?

16. Fill the blanks in the given table using suitable formulae.

No	Alkane	Alkene	Alkyne
1	C_2H_6 ethane	_____ ethene	C_2H_2 ethyne
2	_____Propane	C_3H_6 Propene	_____propyne
3	C_4H_{10} Butane	_____Butene	_____Butyne

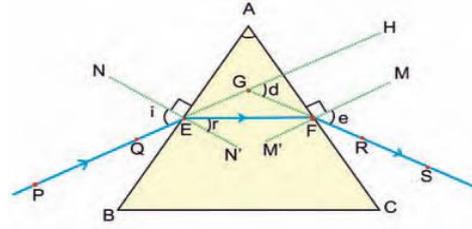
PHYSICS**CHAPTER – XV**

17. i) Newton's first law of motion gives a qualitative definition of force. Justify.
ii) Which would require a greater force for accelerating a 2 kg of mass at 4 m s⁻² or a 3 kg mass at 2 m s⁻²?
18. Newton's third law of motion. For every action there is an equal and opposite reaction. Explain this law using illustrations.
 $F = G \frac{m_1 m_2}{d^2}$ is the mathematical form of Newton's law of gravitation, G - gravitational constant, m_1 m_2 , are the masses of two bodies separated by a distance d, then give the statement of Newton's law of gravitation.
19. i) Tabulate the difference between mass and weight
ii) What are the uses of cryogenic techniques?
20. i) Write two difference between mass and weight
ii) $F = G \frac{m_1 m_2}{d^2}$ is the mathematical form of Newton's law of gravitation, G - gravitational constant, m_1 m_2 , are the masses of two bodies separated by a distance d, then give the statement of Newton's law of gravitation.
21. i) Space Stations are used to study the effects of long-space flight on the human body. Justify.
ii) $F = G \frac{m_1 m_2}{d^2}$ is the mathematical form of Newton's law of gravitation, G - gravitational constant, m_1 m_2 , are the masses of two bodies separated by a distance d, then give the statement of Newton's law of gravitation.
22. Write any five achievements of Chandrayan – I

CHAPTER – XVII

23. i) Redraw the diagram.
ii) This diagram represents _____
iii) Label the parts of the diagram.
iv) Mention the principle used in the device denoted by this diagram.
24. a. Draw the given diagram and label the following in the diagram.
i) Incident ray
ii) Refracted ray

- iii) Emergent ray
- iv) Angle of refraction
- v) Angle of deviation
- vi) Angle of emergence



b. The refractive index of diamond is 2.42. What is the meaning of this statement in relation to the speed of light?

25. i) State and explain the defects of vision .
 ii) How can these defects be corrected?