

10TH CLASS BIOLOGY GUESS PAPER – 2022.

CHAPTER NO. 10 GASEOUS EXCHANGE.

SHORT QUESTIONS.

1. Write difference between Lenticels and stomata M.I
2. How is voice produced from vocal cord? M.I
3. What are the effects of smoking on teeth? M.I
4. Difference between day time respiration and respiration of night. M.I
5. What is passive smoking? How it is dangerous? M.I.
6. Difference between berating and cellular respiration. M.I
7. How does the gaseous exchange occur in leaves and young steam? M.I
8. Define Alveolus. M.I
9. Difference between Nasal cavity and Nostril. M.I
10. Difference between Larynx and Trachea. M.I
11. What is meant by bronchitis? Write the name of its two types. M.I
12. Write four symptoms of bronchitis. M.I
13. Difference between acute and chronic bronchitis. M.I
14. Why does blood become thick due to smoking? Give reason M.I
15. What is pneumonia? Write its symptoms. M.I
16. What is nostrils? M.I
17. What is pneumonia M.I
18. What is epiglottis? M.I
19. What is diaphragm? M.I
20. Define voice box. M.I
21. Define intercostal muscles. M.I

LONG QUESTION.

1. Explain osmoregulation and thermoregulation. M.I
2. Describe bad effect of smoking on human health. M.I
3. Difference between asthma and emphysema. Write down their symptoms and causes. M.I

CHAPTER NO. 11. HOMOEOSTASIS.

SHORT QUESTIONS.

1. Define Homoeostasis. M.I.
2. Define Osmoregulation M.I
3. Define thermoregulation. M.I
4. Define Excretion. M.I
5. Difference between Transpiration and guttation. M.I
6. What is Renal pelvis? M.I
7. What are collecting ducts?
8. What is Nephron? M.I
9. Define lithotripsy. M.I
10. Define dialysis. M.I
11. What are the causes of stone formation in kidney? M.I
12. Describe any two causes of kidney failure. M.I
13. What is Bowman's capsule?
14. Write two reasons of kidney stone. M.I.
15. What is the tubular secretion? M.I.
16. What is urinary system? M.I.

LONG QUESTIONS.

1. Explain two methods of dialysis in detail. M.I
2. Write a note on structure of nephron. M.I

CHAPTER NO. 12. COORDINATION AND CONTROL.

SHORT QUESTIONS.

1. Define reflex action and Reflex arc. M.I.
2. Define coordinators with example.
3. Difference between sensory and motor neurons.
4. What is nerve impulse? M.I
5. Define Pancreas.
6. What is myopia? M.I
7. Write down the function of rods and cones present in the retina of eye.
8. Difference between myopia and hypermetropia.
9. Define Receptors.
10. Define myelin sheath. M.I
11. What is paralysis? Write down its causes. M.I
12. Define spinal cord. M.I
13. Define night blindness.
14. What is endocrine system?
15. What is meant by brain stem?
16. What is Epilepsy? M.I
17. What are meninges? Write down their functions. M.I
18. Different between aqueous humour and vitreous humour.
19. Write the names of neurons taking part in reflex.
20. Why does salutatory impulse is called jumping impulse M.I

LONG QUESTIONS.

1. Write a note on nerve cell or neuron.
2. Explain structure of neuron. Or Nerve cell. M.I
3. Write the name and functions of lobes of cerebrum.
4. Write down the name and explain different components of coordinated action. M.I
5. Write a note on forebrain.

CHAPTER NO. 13. SUPPORT AND MOVEMENT.

SHORT QUESTIONS.

1. Difference between hyaline and fibrous cartilage. M.I.
2. Difference between movement and locomotion.
3. How lower Jaw is different in mammals from other lower vertebrates? Also give its advantage.
4. Difference between compact bone and spongy bone. M.I
5. What two minerals are found in bones? M.I
6. Difference between movement and locomotion. M.I
7. What is skeleton? Write one merit. M.I
8. What are hinge joint? Give its one example.
9. Difference between tendons and ligaments. M.I
10. What do you know about osteoarthritis? M.I
11. Describe upper and lower jaw in mammals and vertebrates?
12. What is joint?
13. What do you know about moveable joints?
14. Define Arthritis. M.I
15. Define insertion M.I

LONG QUESTIONS.

1. Describe difference between osteoarthritis and rheumatoid arthritis. M.I
2. Define joint. Describe its different types.
3. What is skeleton? Explain the components of human skeleton. M.I
4. What is Bone? Describe its structure. M.I
5. Define arthritis and describe its types.
6. What do you know about Arthritis? Describe its types. M.I

CHAPTER NO. 14 REPRODUCTION.

SHORT QUESTIONS.

1. How budding occurs in corals?
2. Explain Parthenogenesis with example.
3. How plants reproduce by suckers? Give example
4. What is cloning? M.I
5. Define multiple fission. M.I
6. Difference between two methods of pollination.
7. Difference between self-pollination and cross pollination.
8. What is reproduction? Name its two basic types. M.I
9. Give two disadvantages of vegetative propagation. M.I
10. Difference between epigeal germination and hypogeal germination. M.I
11. How binary fission take place in invertebrates give an example. M.I
12. Define endospores, give an example.
13. Define alternation of generation in plants.
14. Write the full name of STDs. M.I

LONG QUESTIONS.

1. Describe four different ways of natural vegetative propagation. M.I

2. Write a note on the development and structure of seed.
3. What is seed germination? Explain condition for seed germination. M.I
4. Describe the advantages and disadvantages of vegetative propagation of plants. M.I
5. Define germination of seed. Describe various conditions necessary for seed germination.
6. State any five methods of natural vegetative propagation.

CHAPTER NO. 15 INHERITANCE.

SHORT QUESTIONS.

1. What is "theory" of special creation"? M.I
2. Name nitrogenous bases found in DNA molecule.
3. Difference between homozygous genotype and heterozygous genotype.
4. State the law of segregation.
5. Define Homologous chromosome? M.I.
6. What is inheritance?
7. What are nucleosomes?
8. What is recombinant DNA?
9. Define the Mendel's law of independent assortment.
10. What is meant by natural selection, also give an example.
11. Define continuous variation. Give source of variation. M.I
12. Difference between transcription and translation. M.I
13. Define co-dominance. Give an example. M.I
14. Define incomplete dominance. Give example. M.I
15. Define Natural selection.
16. Define Artificial selection.
17. Difference between breeds and varieties or cultivars. M.I

LONG QUESTIONS.

1. Describe structure of DNA? M.I
2. Define and explain Mendel's law of segregation. M.I
3. Define and explain Mendel's law of independent assortment.

CHAPTER NO. 16 **MAN AND HIS ENRIRONMENT.**

SHORT QUESTIONS.

1. Define Food chain and food web. M.I
2. Define Acid rains.
3. How biotechnology has helped us in improving the environment. M.I
4. What is meant by decomposers? Give an example.
5. Difference between Population and Community. M.I
6. Define is biological nitrogen fixation. M.I
7. Write two effects of acid rain.
8. Define deforestation.
9. What is meant by denitrification? M.I
10. What is global warming? M.I
11. Define predation. M.I
12. Define Species.
13. Write down four disadvantages of excessive denitrification.
14. Define Ecosystem.
15. Define Urbanization. M.I
16. What is greenhouse effect? Write the name of two important greenhouse gases.

LONG QUESTIONS.

1. What is global warming? Describe its causes. M.I
2. Write a note on carbon cycle.
3. Write the name of Nitrogen cycle. M.I
4. Describe in detail the biotic components of ecosystem.
5. What is acid rain? Describe its bad effects.
6. Give a detail account of urbanization. M.I
7. Explain producers and consumers with example.

CHAPTER NO. 17. **BIOTECHNOLOGY.**

SHORT QUESTIONS.

1. Define Biotechnology. M.I
2. What is continuous fermentation? M.I
3. Define fermentation.
4. What is fermenter?
5. What is single cell protein? M.I
6. What is alcoholic fermentation? M.I
7. What is Lactic acid fermentation?
8. How biotechnology has helped us in improving the environment. M.I
9. Give two objectives of genetic engineering. M.I
10. Write down four uses of formic acid.

11. How human growth hormones was obtained before genetic engineering.
12. Define vector.

LONG QUESTIONS.

1. Describe basic steps in genetic engineering. M.I
2. Describe the advantages of using fermenters.
3. Discuss role of biotechnology is the field of food, Medicine, and agriculture. M.I

CHAPTER NO.18 PHARMACOLOGY.

SHORT QUESTIONS.

1. Define pharmacology.
2. What are tetracycline's? Give an example.
3. What are sedatives? Give an example. M.I
4. What are synthetic drugs? M.I
5. What are hallucinogens? M.I
6. Write about drugs obtained from plants.
7. What are pharmaceutical drugs?
8. What is heroin, what is its effect on CNS? M.I
9. For what purpose vaccines are used?
10. Explain drugs from animals.
11. Difference between antibiotics and disinfectants. M.I
12. What are narcotics? Write down its uses.
13. Differentiate between pharmaceutical and addictive drugs. M.I
14. What are sulpha drugs? Write down its one uses. M.I
15. Difference between bactericidal and bacteriostatic antibiotics.
16. Define Vaccine? M.I
17. What are addictive drugs?
18. Define antigens and antibodies.

LONG QUESTIONS.

1. What meant by antibiotic resistance.
2. Describe five sources of drugs production.