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As per a by the Controller of Examinations Khyber Pakhtwonwa, the forthcoming SSC Annual-II (10th Class) Exam 2023 will be based on these SLOs-based papers.

BIOLOGY

CHAPTER NO. 1

GASEOUS EXCHANGE

KNOWLEDGE BASED QUESTIONS. 30%

- 1. How air is taken inside by the lungs during breathing? Explain
- 2. Difference between the term "respiration" and "breathing".
- 3. Compare the composition of inhaled and exhaled air.
- 4. What is the function of the cartilage present in the wall of the tracheas and branchi?
- 5. What is purpose of gaseous exchange?

UNDERSTANDING BASED QUESTIONS. 50%

- 1. Why does plants not need a specialized respiratory system?
- 2. How are the surface area of leaves and lungs important for gaseous exchanges?
- 3. What is a diaphragm and what is its role in breathing.
- 4. What are carcinogens? Name any tow carcinogens present tip tobacco.
- 5. What is difference between stoma and lenticet?
- 6. Function of hair and mucus in the nose?
- 7. Difference between nasal cavity and nostrils.
- 8. What is difference between nasal cavity and nostrils?
- 9. What is nicotine?

APPLICATION BASED QUESTIONS 20%

- 1. Why is it advised to breathe through the nose and not through the mouth?
- 2. What is Passive smoking?

LONG OUESTION.

- 1. What is bronchitis? Describe its types of symptoms.
- 2. Describe the bad effects of smoking?

CHAPTER NO. 11

HOMEOSTASIS

KNOWLEDGE BASED OUESTONS, 30%

- 1. Difference between osmoregulation and thermoregulation?
- 2. What is guttation?
- 3. Difference between xerophytes and hydrophytes give example.
- 4. Difference between adaptations of hydrophytes and serphyteis and osmoregulation.
- 5. Define Lithotripsy?

UNDERSTANDING BASED QUESTIONS 50%

- 1. Briefly describe how kidneys control the composition of blood.
- 2. What is the role of the skin in thermoregulation?
- 3. Which term is used for the disease where one or both kidneys do not perform their function?
- 4. Difference between renal cortex and renal medulla.
- 5. Define pressure filtration.
- 6. What is meant by peritoneal dialysis?
- 7. What is meant by kidney transplant?
- 8. How does skin help in homeostasis.

LONG OUESTIONS.

- 1. Explain the structure of nephron.
- 2. Describe the structure of kidney in human beings.
- www.illinkiduinye.com 3. What is meant by Dialysis? Explain its two methods.
- 4. Explain kidney transplant.

CHAPTER NO. 12

www.illimikidlumys.com COORDINATION AND CONTROL

UNDERSTANDING BASED OUESITONS. 50%

- 1. Differentiate between the two types of coordination system.
- 2. What happens if islets of Langerhans secrete insulin but not glycogen?
- 3. What is the role of insulin and glucagon?
- 4. What characters are controlled by the ovarian hormones?
- 5. What is meant by salutatory impulses?
- 6. What are receptors? Give an example.
- 7. Differentiate between receptors and effectors.
- 8. What is vitreous homour?
- 9. What is paralysis? Write its causes.
- 10. What is meant by blind spot?
- 11. Write names of two disorders of eye.

APPLICATION BASED OUESITONS, 20%

- 1. What is gangue?
- 2. What is difference between hemispheres and cerebral cortex?
- 3. What is exocrine glands?
- 4. What do know about Goltre.
- 5. What do know about BGC test?

LONG OUESTION.

- 1. Describe the structure of neuron.
- 2. Explain the feedback mechanism.
- 3. Explain the peripheral nervous system.

CHAPTER NO. 13 SUPPORT AND MOVEMENT.

KNOWLDEGE BASED OUESITONS. 30%

- 1. Difference between cartilage and bone.
- 2. Difference between endoskeleton and exoskeleton.
- 3. Difference between flexion and extension.
- 4. What is meant by skeletal system?
- 5. What is the difference between biceps and triceps muscles?

UNDERSTANDING BASED OUESITONS. 50%

- 1. What is elastic cartilage?
- WANN OUT 2. Define ball-and –socket joint. Give an example.
- 3. Define joint and hinge joint? Give example.
- 4. What is arthritis? How it can be treated?
- 5. What do you know about gout?

LONG OUESITONS.

- 1. What are tendons and ligaments? What function do they perform?
- 2. What is arthritis? Explain its types.

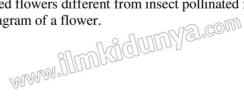
REPRODUCTION COM CHAPTER NO. 14

UNDERSTANDIN BASED QUESTIOS 50%

1. Difference between internal and external fertilization. Which types of fertilization will ensure better chances of function of gametes?

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- 2. How can vegetation methods of reproduction be used to achieve better yield?
- 3. What is population planning? Why is it important?
- 4. How does self –pollination bring more variation in plants?
- 5. Name the four whorls present in a flower and also describe the components of each whorl.
- 6. Why do seeds need water and oxygen for germination?
- 7. How are wind-pollinated flowers different from insect pollinated flowers?
- 8. Label the following diagram of a flower.



APPLICATION BASED OUESTRON.20%

- 1. What is parthenocarpy?
- 2. Identify different parts of flowers.
- 3. List some of the ripened ovaries and ovules, which are eaten in daily life.

LONG OUESTIONS.

- 1. Explain sexual reproduction in flowering plane.
- 2. Write down the necessary conditions for seed germination.
- 3. Explain reproductive system of female rabbit.

CHAPTER NO. 15

INHERITANCE.

KNOWLEDGE BASED QUESTIONS. 30%

- 1. Difference between genotype and phenotype.
- 2. Difference between natural and artificial selection.
- 3. Describe Mendel's law of segregation?
- 4. Difference between incomplete and co-dominance.
- 5. Describe the theory of special creation.
- 6. Difference between breeds and cultivars.

UNDERSTANDING BASED OUESTION. 50%

- 1. What do you mean by dominant and recessive alleles?
- 2. What are the homozygous and heterozygous genotypes?
- 3. What are traits? Give an example
- 4. What are transcription and translation
- 5. What is meant by "Punnett square"?
- 6. How can crossing bring variation?
- 7. How are DNA and protens packed to form a chromosome?
- 8. How is artificial selection used for the improvement of crops?

LONG OUESTIONS.

- 1. How does the DNA of chromosome work? Explain.
- 2. Describe Mendel's law of segregation.
- 3. Describe Mendel's law of independent assortment.

CHAPTER NO. 16

MAN AND HIS ENVIRONMENT.

KNOWLEDGE BASED OUESTIONS. 30%

- 1. What is meant by ecological pyramid?
- 2. What are end parasites? Give example
- 3. Define food chain and food web.
- 4. Difference between biotic and abiotic factors.
- 5. Define mutualism, Give an example.
- 6. What is acid rain?
- 7. How is smog formed?
- 8. Define renewable resources. Give an example.

UNDERSTNADING BASED QUESTIONS 50%

- 1. Define the term. Species, biosphere and ecosystem.
- 2. Difference between population and community.
- 3. Difference between food chain and food web.
- 4. Hoe does deforestation affect and environment?
- 5. Distinguish between herbivore, carnivore, and omnivore.
- 6. Outline the role of bacteria in the nitrogen cycle.
- 7. Name any five sources of water pollution.
- 8. Difference between parasitism and mutualism.
- 9. Difference between autotrophs and heterotrophs.



LONG QUESTION.

- 1. What is deforestation? Explain.
 2. Explain "The 3R" principle.

CHAPTER NO. 17

BIOTECHNOLOGY.

UNDRSTANDING BASED OUESTIONS. 50%

- 1. What is meant by gene therapy?
- 2. What is meant by alcoholic fermentation?
- 3. Uses of glycerol.

- 5. Write two objectives of genetic engineering.

 6. What do you meen by the 6. What do you mean by beta-endorphin? Give its function.
- 7. What is thymosin hormone? Give its function.
- 8. What is novel protein?

APPLICATION BASED QUESTIONS. 20%

- 1. What do you think of when you hear the word "biotechnology"?
- 2. What do you mean by zymology.

LONG OUESTIONS.

- 1. Define biotechnology. Describe its role in the field of medicine.
- 2. Write down five achievement of genetic –engineering.
- 3. Write down five application of fermentation.

PHARMACOLOGY. **CHAPTER NO. 18**

KNOWLEDGE BASED OUESTIONS, 30%

- 1. What is difference between pharmacology and pharmacy?
- 2. Difference between medicinal drug and addictive drug.
- 3. Difference between analgesic and antibiotic.
- 4. Difference between bactericidal and bacteriostatic antibiotics.
- 5. Difference between antigens and antibodies.

UNDERSTANDING BASED QUESTIONS. 50%

- 1. What is vaccine?
- 2. What is marijuna? To which category of addictive drugs, it belongs?
- 3. How difference between antiseptics to antibiotics.
- 4. Write two used of cephalosporins.
- 5. Write work of Joseph Lister
- 6. What are sedatives? Give an example.
- 7. What is meant by narrow-spectrum antibiotics?
- 8. What are medicinal drugs? Write its sources.

LONG QUESTIONS.

- 1. Explain drug addiction and associated problems.
- 2. What

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