



ZIAUDDIN UNIVERSITY
EXAMINATION BOARD

Resources For “HSC-II Zoology” ZUEB Examinations 2022

Paper Distribution

Section A:

Multiple choice questions (MCQs)=18

Section B:

Non-Reasoning=Attempt 04

Reasoning= Attempt 05

Section C:

Descriptive questions = Attempt 02

Maximum Marks=45

SECTION "B" (CONSTRUCTED RESPONSE QUESTION)
&
SECTION "C" (EXTENDED RESPONSE QUESTIONS)

Chapter's Name	Section "B" (CRQs) (Constructed Response Question)		Section "C" (ERQs) (Extended Response Questions)
	Very Short Answer Questions (Non-Reasoning)	Short Answer Question (Reasoning)	
<u>Homeostasis</u>	<ol style="list-style-type: none"> Define Dialysis. Write any one method of its. Define Deamination. Draw the chart of Ornithine cycle. State the role of Hormones in the Working of kidneys. <ul style="list-style-type: none"> ADH Aldosterone Parathormone 	<ol style="list-style-type: none"> How terrestrial animals prevent in water loss? Why we consider liver as homeostatic organ? Why is Hypothalamus called the thermostat of the body? Why moderate form of fever is good for health? 	<ol style="list-style-type: none"> Explain the Regulatory functions of the human Kidney and draw a labelled diagram of nephron. How do Homoiotherms maintain their body temperature during hot and cold seasons?
<u>Support and Movement</u>	<ol style="list-style-type: none"> Differentiate between any one <ul style="list-style-type: none"> Skeletal muscles and Smooth muscles. Striated and Unsatiated muscles. Bone and Cartilage. What is sliding filament theory? write the role of ATP in the sliding filament theory? What is the function of Pelvic girdle? Name its three important bones. Define Joint and name various types of joints. 	<ol style="list-style-type: none"> Why abnormal muscle contraction occurs by low level of calcium ions? Why do Skeletal muscles show fatigue after heavy exercise? How does Hydrostatic skeleton help the earthworm in locomotion? What is the reason of abnormal muscle contraction in sportsmen? Why movement in jelly fish is 	<ol style="list-style-type: none"> Describe Skeletal muscles and the structure of Skeletal muscle fiber. Draw neat and labelled diagram of Skeletal fiber.

		<p>termed as jet propulsion movement.</p>	
<p><u>Coordination and control</u></p>	<p>8. Define Neuron and give the names of different types of neurons.</p> <p>9. Write a note on any one</p> <ul style="list-style-type: none"> • Reflex action • Thymus gland <p>10. Write a note on Epilepsy OR Thyroid Gland.</p>	<p>10. Why is Nervous co-ordination called the quickest way of communication within the body?</p> <p>11. Why do Cnidarians have diffused nervous system?</p> <p>12. why there is enlarge thyroid gland in goiter?</p> <p>13. How cerebroside fluid protect the brain.</p> <p>14. How does pancreas regulate the amount of blood sugar?</p> <p>15. Which hormone is released from Adrenal Medulla and Why is it called Emergency hormone?</p>	<p>4. Describe the structure and functions of different parts of the human brain. (Diagram is not required.)</p> <p>5. Describe Endocrine glands. Describe Pituitary gland as Master gland.</p>
<p><u>Reproduction</u></p>	<p>11. Name the various type of Asexual reproduction in animals with examples.</p> <p>12. Draw a labelled diagram of various stages of spermatogenesis.</p> <p>13. Write a note on Regeneration.</p>	<p>16. Why testes descend down in human male fetus before birth?</p> <p>17. Why identical twins are similar but fernal twins are not?</p> <p>18. Why do Monozygotic</p>	<p>6. Explain term Menstruation. Describe its various phases and the changes taking place in each with diagrams.</p>

		twins have the same sex?	
<u>Growth and development</u>	<p>14. Define Aging. Give its causes.</p> <p>15. Differentiate between blastula and gastrula.</p>	<p>19. Why growth is different from development</p> <p>20. Why is cleavage in birds Meroblastic and Discoidal?</p> <p>21. How does Abnormal development take place in man? Give its some examples.</p>	<p>7. Describe term Development. Explain the process of Gastrulation in a Chick up to the formation of three germinal layers. Draw labelled diagram.</p>
<u>Biotechnolog</u> y	<p>16. State the significance of Genetically engineered bacteria.</p> <p>17. Write the basis steps of recombinant DNA technology</p> <p>18. Explain Gene Therapy.</p> <p>19. Define biotechnology also write its importance.</p>	<p>22. Why is DNA fingerprinting performed?</p> <p>23. What is meant by sticky end?</p>	<p>8. Explain the various steps involved in Recombinant DNA technology and draw neat and labelled diagram.</p>
<u>Evolution</u>	<p>20. What are Vestigial organs? Write their example.</p> <p>21. State the Objections on Lamarck's Theory. OR Explain Weismann theory.</p> <p>22. Write any four objections on Darwin's Natural Selection Theory.</p> <p>23. Differentiate between Spermatogenesis or Oogenesis.</p>	<p>24. Why is Archaeoptery x considered a link between Reptiles and Birds?</p> <p>25. Give any two evidences in favor of Organic evolution.</p>	<p>9. Describe Darwin theory of Natural selection</p>

Man, and his environment

- 24. Write note on Acid Rain
- 25. Name any four Viral diseases with causes and modes of transmission.
- 26. Differentiate between Renewable and Non-renewable resources of environment.

- 26. How is Ozone layer being depleted?