

MODEL PAPER, 2023

	Subject: Biology		Grade-X		M. Marks: 60		Time: 3 Hours
SECTION "A"							
	(MULTIPLE CHOICE QUESTIONS)						
Q1.	Choo	noose the correct answer for each from the given options: (12)					
	(i)	The kidney is enclosed in a membrane called:					
		(a) Pericardium (b) Peritoneum				(c)	Pleural membrane
	(ii)	Which of the following disorder is associated with inflammation of air					
		passage ways:					
		(a) Asthma		Bronchitis		(c)	Lung cancer
	(iii) The make gonads in rabbit are:						
		(a) Testis) Ovaries		(c)	Scrotal sec
	(iv)	(iv) The exact duplication of DNA is called:					
		(a) Duplication		Replication		(c)	Transcription
	(v) The life sustaining envelop of earth is:						
		(a) Biosphere		Biomes		. ,	Atmosphere
	(vi) The bread laugh rises during alcoholic fermentation is due to:						
	<i>(</i> I)					H ₂ O	
	(vii) Conversion of atmospheric free nitrogen gas into nitrates called:						
	<i>,</i>	(a) Nitrification (b) Denitrifiction (c)					Nitrogen fixation
	 (ix) Seeds do not germinate at temperature below 0oC or a (a) 35°C (b) 45°C (c) 						
						. ,	Ligase
						• •	25 0
	(x) is more common in female then male:						Arthritis
	(a) Osteoporosis (xi) Cartilage is made up of			(b) Rickets cells.		(0)	Artinus
	(a) Chondrocytes					(c)	Osteoclast
	 (a) Chondrocytes Q Osteocytes (c) Osteoclast (xii) Removal of extra liquid (water) from plant is: (a) Guttation (b) Transpiration (c) Respiration 						Osteociast
							Respiration

SECTION "B"

SHORT ANSWER QUESTIONS

Note: Answer any eight questions from this section. Each question carries 3 marks.

(24)

- Q2. Write three main aspects of homeostasis?
- Q3. Write any three difference between cartilage and bone OR asexual and sexual reproduction?
- Q4. What are the main functions of skeleton?
- Q5. What is pollination? Discuss the types of pollination?
- Q6. Define the following:
 - (i) Spermatogenesis (ii) Drugs (iii) Oxygen debt
- Q7. Write a brief note on lung cancer OR acid rain OR kidney stone.
- Q8. What is brain? Write the name of important parts of brain?
- Q9. What is Joint? Discuss the types of joint.
- Q10. List out the male reproductive organs of a rabbit with glands?
- Q11. What is role in the formation of curd? Explain its role in the formation of curd?
- Q12. What are the different types of fermentation OR define variation also discuss the types of variation.
- Q13. Define vaccine. How does a vaccine work against pathogen?

SECTION "C"

DESCRIPTIVE ANSWER QUESTION

Note: answer any four questions from this section. Each question carries 6 marks.

(24)

- Q14. Describe the theory of natural selection. (Darwinism) OR Describe nitrogen cycle as biogeochemical.
- Q15. Describe the structure of kidney with the help of labeled diagram.
- Q16. What is germination? Give the conditions that is necessary for seed germination?
- Q17. Describe the biotic factors of an ecosystem OR describe the Mendel's law of independent assortment with the help of checker board.
- Q18. Describe the structure of human skin?
- Q19. Define biotechnology? Describe the scope and importance of biotechnology.

OR

Describe different types of asexual reproduction in animals?