

ANSWER KEY

SY - 426

SECOND YEAR HIGHER SECONDARY EXAMINATION, MARCH 2025

PART – III

SUBJECT : ZOOLOGY

30 SCORES

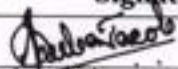
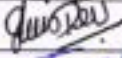
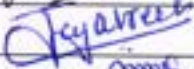
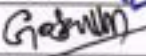
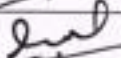
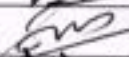
1 HOURS

Qn No	Sub Qns	Answer Key/ Value Points	Score	Total Score
I		Answer any 3 questions from 1 to 5. Each carries 1 score		
1.		Saheli	1	1
2.		Allergy	1	1
3.	a b	Ovary Progesterone	1/2 1/2	1
4.		30	1	1
5.		Haemophilia	1	1
II		Answer any 9 questions from 6 to 16. Each carries 2 scores.		
6.	a b c	No. It is an STD / It is transmitted through - • Sexual contact with infected person • By transfusion of contaminated blood and blood products • By sharing infected needles /by sharing infected needles as in the case of intravenous drug abusers • From infected mother to her child through placenta. or (Any relevant answer) (Any 1 Point) Enzyme linked immunosorbent assay / ELISA • Avoid sex with unknown partners / multiple partners • Use condom during coitus • Making blood (from blood banks) safe from HIV • Ensuring the use of disposable needles and syringes in hospitals and clinics • Free distribution of condoms • Controlling drug abuse • In case of doubt consult a qualified doctor. or (Any relevant answer) (Any 1 Point)	1/2 1/2 1/2	2
7.	a b c d	Lactic acid Biocontrol Citric acid <i>Clostridium butylicum</i>	1/2 1/2 1/2 1/2	2
8.	a b	Lactose O – Operator P - Promoter	1 1/2 1/2	2
9.		A-Ramapithecus B-Homo habilis C-Homo erectus D-Homo sapiens	1/2 1/2 1/2 1/2	2

10	a b	UAA,UGA,UAG AUG	1/2 x 4	2
11	a b	ZIFT-Zygote Intra Fallopian Transfer ICSI-Intra Cytoplasmic Sperm Injection	1 1	2
12		<u>Column A</u> Physical barrier Physiological barrier Cellular barrier Cytokine barrier <u>Column B</u> Skin Saliva in mouth Neutrophil Interferon	1/2 1/2 1/2 1/2	2
13	a b c d	Mating Consanguineous mating / Mating between relatives Affected female / Affected individual Male	1/2 1/2 1/2 1/2	2
14	a b c d	Fimbriae Isthmus Infundibulum Ampulla / Ampullary isthmic junction	1/2 1/2 1/2 1/2	2
15	a b	Incomplete dominance 1:2:1	1 1	2
16	a b	Hardy Weinberg principle - Gene migration or gene flow - Genetic drift - Mutation - Genetic recombination - Natural selection (Any 3)	1/2 1/2 1/2 1/2	2
III		Answer any 3 questions from 17 to 20. Each carries 3 scores		
17	a b	A- Cu T / Copper T B- Vasectomy Yes. To avoid female foeticides. / Any relevant answer.	1 1 1/2 1/2	3
18	a b c	Hershey-Chase experiment To determine/prove that DNA is the genetic material / protein is not the genetic material. A-Infection B-Blending C-Centrifugation	1 1/2 1/2 1/2 1/2	3
19	a b	- Habitat loss and fragmentation - Over-exploitation - Alien species invasion - Co-extinction - In-situ conservation / On- site - Ex-situ conservation / Off - site	1/2 1/2 1/2 1/2 1/2 1/2	3
20	a	Male heterogamety is a condition where males produce two different types of sex chromosomes / gametes /sperm.	1	

b	XX -XY mechanism / Diagrammatic representation/Explanation related to it.	1	3
c	Egg .	1/2	
	Females are heterogametic / produce two types of eggs /Females have ZW chromosomes, while males have ZZ chromosomes .	1/2	

PREPARED BY

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