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**G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.**



**UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.**

(For those admitted in June 2023 and later)

**PROGRAMME AND BRANCH: B.Sc., CHEMISTRY/BOTANY**

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
II	PART-III	ELECTIVE GENERIC - 2	U23ZO2A2	HUMAN PHYSIOLOGY, EMBRYOLOGY, IMMUNOLOGY, HUMAN GENETICS AND ANIMAL BEHAVIOUR

**Date & Session: 03.05.2025/ FN**

**Time: 3 hours**

**Maximum: 75 Marks**

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer <u>ALL</u> Questions.
CO1	K1	1.	Which of the following blood cells play an important role in blood clotting? a) Leucocytes b) Neutrophils c) Thrombocytes d) Erythrocytes
CO1	K2	2.	In which part of the respiratory system, gaseous exchange takes place? a) Alveoli b) Pharynx c) Larynx d) Trachea
CO2	K1	3.	The actual genetic section of sperm is its. a) Acrosome b) Tail c) Middle piece d) Head
CO2	K2	4.	Egg development without fertilization is known as. a) Metagenesis b) Parthenogenesis c) Gametogenesis d) Oogenesis
CO3	K1	5.	How many types of antibodies are there? a) Two b) Three c) Five d) Four
CO3	K2	6.	Which of the following cells of the immune system do not perform phagocytosis? a) Macrophage b) Neutrophil c) Basophil d) Monocytes
CO4	K1	7.	In humans, each cell normally contains _____ of chromosomes. a) 11 pairs b) 23 pairs c) 32 pairs d) 46 pairs
CO4	K2	8.	Which is the normal sex chromosome combination for a male? a) XX b) YY c) XY d) XXY
CO5	K1	9.	The study of the natural history of animal behavior is. a) Etiology b) Psychology c) Ethology d) Parapsychology
CO5	K2	10.	The inherited behavior is called. a) Imprinting b) Learning c) Maturation d) Instinct

Course Outcome	Bloom's K-level	Q. No.	<b>SECTION – B (5 X 5 = 25 Marks)</b> <b>Answer <u>ALL</u> Questions choosing either (a) or (b)</b>
CO1	K3	11a.	Identify the functions of human blood. <b>(OR)</b>
CO1	K3	11b.	Illustrate the mechanism of blood clotting.
CO2	K3	12a.	Write about the mechanism of fertilization. <b>(OR)</b>
CO2	K3	12b.	What is placenta? List out the function on mammalian placenta.
CO3	K4	13a.	Tabulate the vaccination schedule. <b>(OR)</b>
CO3	K4	13b.	Analyse primary lymphoidal organs and its functions.
CO4	K4	14a.	Illustrate the structure and function of human chromosome. <b>(OR)</b>
CO4	K4	14b.	Examine the sex determination of humans.
CO5	K5	15a.	What are the scopes on ethology? <b>(OR)</b>
CO5	K5	15b.	Justify the more parental care in human.

Course Outcome	Bloom's K-level	Q. No.	<b>SECTION – C (5 X 8 = 40 Marks)</b> <b>Answer <u>ALL</u> Questions choosing either (a) or (b)</b>
CO1	K3	16a.	Interpret the mechanism of respiratory gas transports. <b>(OR)</b>
CO1	K3	16b.	Illustrate the methods of nerve impulse conduction.
CO2	K4	17a.	Analyse the stages involved in spermatogenesis. <b>(OR)</b>
CO2	K4	17b.	Identify types and patterns of cleavage.
CO3	K4	18a.	Categorise and explain about the types of immunity. <b>(OR)</b>
CO3	K4	18b.	Differentiate the various types of immunoglobulin's and its functions.
CO4	K5	19a.	Discuss about the importance genetic counselling. <b>(OR)</b>
CO4	K5	19b.	Describe about the sex linked inheritance.
CO5	K5	20a.	Critically evaluate the nesting behaviour in birds. <b>(OR)</b>
CO5	K5	20b.	Discuss the foraging behaviour of animals.