

KAMARAJ COLLEGE (Autonomous)

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

(3 Pages)

Reg. No:.....

Question Code: 26E00616

Course Code : 24UEZO21

UG Degree - End Semester Examinations, April 2026

Second Semester

ZOOLOGY ALLIED

Allied Zoology-II

(For those who joined in July 2024 onwards)

Time : 3Hours

Maximum : 75 Marks

PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer :

CO:1 1. Respiration & Respiratory Pigments

- K:1 (a) Myoglobin (b) Hemoglobin
(c) Chlorophyll (d) Cytochrome

CO:1 2. Vitamin required for clotting is:

- K:1 (a) Vitamin A (b) Vitamin D
(c) Vitamin K (d) Vitamin C

CO:2 3. Cleavage in frog is:

- K:1 (a) Holoblastic (b) Meroblastic
(c) Superficial (d) Discoidal

CO:2 4. Formation of germ layers occurs during:

- K:2 (a) Fertilization (b) Organogenesis
(c) Gastrulation (d) Cleavage

CO:3 5. Acquired immunity is:

- K:1 (a) Present at birth (b) Non-specific
(c) Developed after exposure (d) Genetic only

CO:3 6. Antibodies are produced by:

- K:1 (a) RBC (b) B cells
(c) T cells (d) Platelets

- CO:4 7. Total number of chromosomes in humans:
K:2 (a) 46 (b) 23
(c) 48 (d) 44
- CO:4 8. Example of multiple alleles:
K:2 (a) Eye color (b) Blood group
(c) Skin color (d) Height
- CO:5 9. Courtship behaviour helps in:
K:2 (a) Finding food (b) Building nests
(c) Attracting mates (d) Avoiding predators
- CO:5 10. Example of parental care is:
K:3 (a) Migration (b) Hunting
(c) Nest building (d) Feeding young ones

PART - B (5 X 5 = 25 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 250 words.

CO:1 11. (a) Describe transport of oxygen in blood.

K:1 **(OR)**

(b) Explain ornithine cycle with diagram and significance.

CO:2 12. (a) Explain cleavage in frog.

K:4 **(OR)**

(b) Write short notes on types of placenta.

CO:3 13. (a) Describe acquired immunity.

K:2 **(OR)**

(b) Explain humoral immune response.

CO:4 14. (a) Explain multiple alleles with suitable example.

K:5 **(OR)**

(b) Write a note on genetic counselling.

CO:5 15. (a) Why is parental care important for young animals?

K:3 **(OR)**

(b) How does a bird build its nest?

PART – C (5 X 8 = 40 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 500 words.

CO:1 16. (a) Describe intrinsic and extrinsic pathways of coagulation.

K:3

(OR)

(b) Describe structure of neuron and explain conduction of nerve impulse.

CO:2 17. (a) Explain gastrulation in frog with suitable diagrams.

K:3

(OR)

(b) Describe organogenesis in frog and explain the role of germ layers.

CO:3 18. (a) Write a note on vaccination and its importance.

K:4

(OR)

(b) Describe antigen-antibody interaction.

CO:4 19. (a) Describe human chromosomes and explain sex determination in humans.

K:4

(OR)

(b) Explain different patterns of inheritance with suitable examples.

CO:5 20. (a) Describe foraging behaviour and optimal foraging theory.

K:3

(OR)

(b) Describe learning behaviour and its types in animals