

# **KAMARAJ COLLEGE (Autonomous)**

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

THOOTHUKUDI – 628 003

**(5 Pages)**

**Reg. No: .....**

**Question Code No : 25000610**

**Course Code : 24UEZO21**

**UG Degree - End Semester Examinations, November 2025**

**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:**

1. Which structure serves as the primary site for gas exchange in the human lungs?  
(a) Bronchi (b) Alveoli  
(c) Trachea (d) Bronchioles
2. Which is considered as the basic functional unit of nervous system?

- (a) Exon (b) Neuron  
(c) Cilia (d) Neuron
3. Choose the structure that forms as a result of gastrulation in frog embryos.
- (a) Neural tube (b) Somites  
(c) Archenteron (d) Placenta
4. Select the type of animals that has a diffuse placenta.
- (a) Humans and primates (b) Pigs and horses  
(c) Dogs and cats (d) Rodents and rabbits
5. Culturing of only one sex either male or female fish is called as \_\_\_\_\_.
- (a) Monoculture (b) Monosex Culture  
(c) Polyculture (d) Multiculture
6. Culturing of fish along with agriculture or animal husbandry is called\_\_\_\_\_.
- (a) Integrated fish culture (b) Polyculture  
(c) Monoculture (d) Monosexculture
7. Which among the following is called brine shrimp?
- (a) *Portunus* (b) *Moina*  
(c) *Artemia* (d) *Daphnia*
8. Which one of the following is commonly called as rotifer?
- (a) *Brachionus* (b) *Daphnia*

(c) *Chlorella*

(d) *Spirulina*

9. Select the most effective method for long-term fish preservation.

(a) Smoking

(b) Salting

(c) Drying

(d) Freezing

10. Isinglass is prepared from \_\_\_\_\_ of fish.

(a) air bladder

(b) liver

(c) stomach

(d) skin

**PART - B (5 X 5 = 25 Marks)**

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

**Answer should not exceed 250 words.**

11. (a) Explain the structure of neuron with diagram.

**(OR)**

(b) Differentiate between ammonotelic, ureotelic and uricotelic organisms with examples.

12. (a) Explain the three types of blastula of chordates.

**(OR)**

(b) Present the significance of fertilization.

13. (a) Define intensive fish culture. Explain its characteristics, advantages and disadvantages.

**(OR)**

(b) Describe polyculture in aquaculture.

14. (a) Discuss the role of rotifer in aquaculture and the culture method.

**(OR)**

(b) Present the qualities of good artificial feed.

15. (a) How pickling is done in fish preservation?

**(OR)**

(b) Mention the advantages and disadvantages of freezing.

**PART - C (5 X 8 = 40 Marks)**

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

**Answer should not exceed 500 words.**

16. (a) Describe the role of hemoglobin in the transport of oxygen.

**(OR)**

(b) Demonstrate the steps involved in the ornithine cycle.

17. (a) Analyze the functions of placenta.

**(OR)**

(b) Outline the physiological changes in fertilization.

18. (a) What is animal husbandry-cum-fish culture? Explain its method, advantages and limitations.

**(OR)**

(b) Describe sewage fed fish culture.

19. (a) Explain the culture of *artemia* in salterns.

**(OR)**

(b) Outline the culture of micro algae.

20. (a) What is smoking in fish preservation? Explain the process and their benefits.

**(OR)**

(b) What is fish canning? Describe the steps involved in the canning process and its advantages.