

**2024/FYUG/ODD/SEM/
ZOOIDC-101T/066**

FYUG Odd Semester Exam., 2024

ZOOLOGY

(1st Semester)

Course No. : ZOOIDC-101T

(Understanding Life Processes)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

UNIT—I

1. Answer any four from the following : 1×4=4

- (a) Define species.
- (b) Mention two basic differences between living being and non-living things.
- (c) What is ICZN?
- (d) What do you mean by zoological parks?
- (e) What are botanical gardens?

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(2)

2. Discuss briefly the different levels of biodiversity. 2

OR

3. Write briefly the rules of binomial nomenclature. 2

4. Discuss the characteristics of living beings. Add a note on the classification of living beings. 6+2=8

OR

5. Discuss the different levels of organization of living beings with suitable illustrations. 6+2=8

UNIT—II

6. Answer any four from the following : 1×4=4

- (a) What is peristalsis?
- (b) Name the digestive glands of human being.
- (c) Write down the dental formula of human being.
- (d) What is the protein digesting enzyme present in stomach?
- (e) Mention the function of villi present in the small intestine of human being.

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(3)

7. Write briefly on anaemia and xerophthalmia. 2

OR

8. Write a brief note on 'mechanical digestion' in human being. 2

9. Define digestion. Discuss the digestive system of human being with suitable labelled diagram. 1+5+2=8

OR

10. Define food. Discuss the basic types of food with examples. Add a note on micronutrients. 1+4+2+1=8

UNIT—III

11. Answer any four from the following : 1×4=4

- (a) What is tidal volume?
- (b) What is the total lung capacity in human being?
- (c) What is partial pressure of O₂ (PO₂)?
- (d) What are the basic characteristics of a respiratory surface?
- (e) Mention the respiratory pigment in human being.

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(4)

12. Write a brief note on 'transport of oxygen' during human respiration. 2

OR

13. Write a brief note on two important respiratory disorders. 2

14. Define breathing. Discuss the mechanism of breathing in human being with suitable illustrations. 1+5+2=8

OR

15. Discuss the respiratory system of human being with suitable labelled diagram. Add a note on 'vital lung capacity'. 4+2+2=8

UNIT—IV

16. Answer any four from the following : 1×4=4

- (a) Define blood group.
- (b) What is lymph?
- (c) What is metabolism?
- (d) What is the antigen present in surface of RBC for A⁺ blood group?
- (e) Why are some individuals known as Rh⁺ and some are Rh⁻?

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(5)

17. Write a brief note on the types of WBC. 2

OR

18. What do you mean by double circulation? 2

19. Define blood. Discuss the components of human blood with suitable illustrations. Add a note on the functions of blood. 1+3+2+2=8

OR

20. Define blood pressure. How is blood pressure measured in human being? Add a note on normal blood pressure. 2+4+2=8

UNIT—V

21. Answer any four from the following : 1×4=4

- (a) Define spermatogenesis.
- (b) What is spermiogenesis?
- (c) Define zygote.
- (d) What is menstrual cycle?
- (e) Mention the accessory glands of human male reproductive system.

22. Write a brief note on the structure of human sperm. 2

OR

23. Write a brief note on the structure of human ovum. 2

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(6)

24. Define fertilization. Discuss the process of fertilization in human being with suitable illustration. $1+5+2=8$

OR

25. Discuss the female reproductive system in human being with suitable labelled diagram. $6+2=8$

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