

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 : $1 \times 4 = 4$

(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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(Turn Over)



(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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(Continued)

(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

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

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(Continued)

(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

- Define spermatogenesis.
- What is spermiogenesis?
- Define zygote.
- What is menstrual cycle?
- 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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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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