

**2023/FYUG/ODD/SEM/
ZOOIDC-101T/036**

**FYUG Odd Semester Exam., 2023
(Held in 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*

SECTION—A

Answer *twenty* questions, selecting any *four* from
each Unit : 1×20=20

UNIT—I

1. Define biodiversity.
2. What is metabolism?

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3. What are ICZN and ICBN?
4. Define the term 'species'.
5. What are zoological parks?

UNIT—II

6. Define digestion.
7. Mention the names of digestive glands of human being.
8. What is peristalsis?
9. Mention the function of villi present in the small intestine of human being.
10. Write down the dental formula of human being.

UNIT—III

11. Define respiration.
12. What is tidal volume?
13. What is vital capacity of lung?

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14. State the volume of air remaining in the lung after a normal breathing.
15. What is partial pressure of O_2 (PO_2)?

UNIT—IV

16. Define blood.
17. What do you mean by blood groups?
18. What is lymph?
19. What do you mean by double circulation?
20. Why are some individuals known as Rh-positive and some are Rh-negative?

UNIT—V

21. Define gametogenesis.
22. What is zygote?
23. Define reproduction.
24. Define menstrual cycle.
25. Mention the accessory glands of human male reproductive system.

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(Turn Over)

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SECTION—B

Answer *five* questions, selecting *one* from each
Unit : $2 \times 5 = 10$

UNIT—I

26. Write briefly the rules of binomial nomenclature.
27. Write a brief note on botanical garden with examples.

UNIT—II

28. Write a brief note on mechanical digestion in human being.
29. Write a brief note on the deficiency diseases xerophthalmia and anaemia.

UNIT—III

30. Write a brief note on two important respiratory disorders.
31. Write a brief note on transport of oxygen during respiration.

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UNIT—IV

32. Distinguish between RBC and WBC.
33. Write a brief note on any two important disorders of circulatory system of human being.

UNIT—V

34. Distinguish between human sperm and human ovum.
35. Distinguish between Menarche and Menopause.

SECTION—C

Answer *five* questions, selecting *one* from each
Unit : $8 \times 5 = 40$

UNIT—I

36. Define living being. Discuss the characteristics of living beings. Add a note on classification of living beings. $1 + 5 + 2 = 8$
37. Discuss the different levels of organization of living beings with suitable illustrations. $6 + 2 = 8$

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UNIT—II

38. Define digestive system. Discuss the alimentary canal of human with suitable labelled diagram. $2+(4+2)=8$
39. Define absorption. Discuss the process of absorption of carbohydrates and proteins with suitable illustrations. $2+(2+2+2)=8$

UNIT—III

40. Define breathing. Discuss the mechanism of breathing in human being with suitable illustrations. $2+(4+2)=8$
41. Discuss the respiratory system of human being with suitable labelled diagram. Add a note on Inspiratory Reserve Volume (IRV). $(4+2)+2=8$

UNIT—IV

42. Discuss the circulatory system of human being with suitable labelled diagram. $6+2=8$
43. Discuss the composition of human blood with suitable illustrations. Add a note on the important functions of blood. $4+2+2=8$

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UNIT—V

44. Describe the male reproductive system of human being with suitable labelled diagram. $6+2=8$
45. Describe the female reproductive system of human being with suitable labelled diagram. $6+2=8$
