

Subject: Zoology

Time: 1½ Hours

Class: XII

Max Marks: 35

GENERAL INSTRUCTIONS:

This question paper contains four sections:

- i. Section –A contains 5 Very Very Short Answer Type Questions of 1 mark each. $1 \times 5 = 5$ marks
- ii. Section- B contains 5 Very Short Answer Type Questions of 2 marks each to be answered in 20 to 30 words. $2 \times 5 = 10$ marks
- iii. Section – C contains 5 Short Answer Type Questions of 3 marks each to be answered in 100 to 150 words. $3 \times 5 = 15$ marks
- iv. Section - D contains 1 Long Answer Type Questions of 5 marks each to be answered in 150 to 200 words. $5 \times 1 = 5$ marks

Section A

Q1. Acrosome in sperm is a modified:

- | | |
|------------------|--------------------------|
| A. Golgi Complex | B. Endoplasmic reticulum |
| C. Mitochondria | D. Vacuoles. |

Q2. Turner syndrome is represented by genotype:

- | | |
|------------|------------|
| A. 45, XY | B. 45, XO |
| C. 47, XXY | D. 47, +21 |

Q3. Which of the following is known as Bleeder's disease?

- | | |
|-----------------------|--------------------|
| A. Sickle cell anemia | B. Night Blindness |
| C. Hemophilia | D. Thalassemia |

Q4. The infective stage of malaria causing parasite in human:

- | | |
|---------------|---------------|
| A. Plasmodium | B. Sporozoite |
| C. Gametocyte | D. Vermiculus |

Q5. Replacement of defective gene with normal one is called:

- | | |
|-----------------|-------------------|
| A. Gene cloning | B. Gene banking |
| C. Gene therapy | D. None of these. |



Section B

- Q6. Draw a well labeled diagram of structure of human sperm.
- Q7. What are analogous organ. Give some example.
- Q8. Write a short note on application of DNA fingerprinting.
- Q9. What is Biopiracy?
- Q10. What do you mean by clone? Give a suitable example of it.

Section C

- Q11. Define Polyspermy and differentiate between fast block and slow block polyspermy.
- Q12. Write a brief account on adaptive radiation. Give some suitable examples.
- Q13. What do you mean by survival of the fittest as propounded by Darwin?
- Q14. What are the changes that take place during the period of adolescence?
- Q15. Name one plant and the addictive drug extracted from its latex. How does this drug affect the human body?

Section D

- Q16. Define Gametogenesis. Describe in detail Oogenesis.

OR

Define placentation. Describe the types and role of placenta.

