

0231

Total No. of Questions—21

Total No. of Printed Pages—2

Regd. No.

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Part III

ZOOLOGY, Paper - II

(English Version)

Time : 3 Hours]**[Max. Marks : 60****Note :—** Read the following instructions carefully.

- (i) Answer all the questions of Section 'A'. Answer **ANY SIX** questions in Section 'B' and answer **ANY TWO** questions in Section 'C'.
- (ii) In Section 'A', questions from Sl. Nos. 1 to 10 are of very short answer type. Each question carries **TWO** marks. Every answer may be limited to 5 lines. Answer all these questions at one place in the same order.
- (iii) In Section 'B', questions from Sl. Nos. 11 to 18 are of short answer type. Each question carries **FOUR** marks. Every answer may be limited to 20 lines.
- (iv) In Section 'C', questions from Sl. Nos. 19 to 21 are of long answer type. Each question carries **EIGHT** marks. Every answer may be limited to 60 lines.
- (v) Draw labelled diagrams wherever necessary for questions in Sections 'B' and 'C'.

SECTION-A

10×2=20

Note :— Answer all the questions in 5 lines each :

1. Name different types of papillae present on the tongue of man.
2. Differentiate between the "Columns of Bertin" and "Duct of Bellini".

3. Write any *two* differences between aerobic and anaerobic muscles.
4. Name the keystone bone of the cranium. Where is it located ?
5. "Colostrum is very much essential for the newborn infants." Justify.
6. Define the terms immunity and immune system.
7. Define "Spermiation" and "Spermatogenesis".
8. What is 'Amniocentesis'? Name any *two* disorders that can be detected by "Amniocentesis".
9. Differentiate between "Apiculture" and "Aquaculture".
10. MRI scan is harmless. Justify.

SECTION B

6×4=24

Note :- Answer any SIX questions in 20 lines each :

11. Draw a neat labelled diagram of L.S. of a tooth.
12. Give an account of the disorders of Human respiratory system.
13. Give an account of the retina of the human eye.
14. Write a note on Addison's disease and Cushing's syndrome.
15. Describe the Genic Balance Theory of sex determination in *Drosophila*.
16. Distinguish between homologous and analogous organs with examples.
17. What is meant by genetic drift ? Explain genetic drift citing the example of Founder Effect.
18. Discuss in brief about 'Avian Flu'.

SECTION-C

2×8=16

Note :- Answer any TWO questions in 60 lines each :

19. What are multiple alleles ? Describe multiple alleles with the help of ABO blood groups in man.
20. Describe male reproductive system of a man. Draw a labelled diagram of it.
21. Give an account of working of the Human heart.