

D 100668

(Pages : 2)

Name.....

Reg. No.....

474155

**SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2024**

(CBCSS—UG)

Zoology

**ZOL 6B 11 T—REPRODUCTIVE AND DEVELOPMENTAL BIOLOGY**

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

**Section A**

I. Short Answer Questions. Each question carries 2 marks :

- 1 What is chorionic villus sampling ?
- 2 Comment on Hox genes.
- 3 Define parthenogenesis.
- 4 Comment on acrosome reaction.
- 5 Mention the importance of Grey crescent.
- 6 What is rotational cleavage ?
- 7 Explain flexion and torsion.
- 8 Describe neural tube formation in frog.
- 9 What is recapitulation theory ?
- 10 Brief the functions of Allantois ?
- 11 Comment on oocyte donation.
- 12 Differentiate between gestation and parturition.

(Ceiling 20 marks)

**Section B**

II. Paragraph Questions. Each question carries 5 marks.

- 13 Explain the various artificial methods of fertility control.
- 14 Give a brief description on cloning experiments in sheep.

Turn over

474155



- 15 Explain the various types of egg membranes.
- 16 Describe the various steps involved in IVF. Add a note on Test tube babies.
- 17 Briefly explain spermatogenesis.
- 18 Describe the role of organizers in amphibian development.
- 19 Describe the effects of teratogenic agents in animal development.

(Ces)

### Section C

III. Essay Questions. Answer any *one* question :

- 20 Give a detailed description on the development of brain in frog embryo.
- 21 With the help of a labeled diagram, explain the salient features of 48 hour

(1\*)