Reg. No.	:	
Name :		•••••

Sixth Semester B.Sc. Degree Examination, April 2024 First Degree Programme under CBCSS

Zoology

Core Course

ZO1642: DEVELOPMENTAL BIOLOGY AND EXPERIMENTAL EMBRYOLOGY

(2019 Admission Onwards)

Time: 3 Hours Max. Marks: 80

- Answer the following questions (In one or two sentences. 1 mark each).
- 1. Neurenteric canal.
- Splanchnopleure.
- Discoblastula.
- 4. Proamnion.
- 5. Fertilizin.
- 6. Indeterminate egg.
- 7. Morula.
- 8. Teratology.

P.T.O.

9.	Yolk plug.						
10	. Copulation path.						
11.	Answer any eight of the 2 mark).	e following	(Not to	exceed	one parag	10 × 1 = 10 raph. Each	Marks carries
11.	Centrolecithal egg.						
12.	Holoblastic cleavage.						
13.	Ultra sound scanning.						
14.	Pleuripotency.		•				
15.	Stem cell therapy.				1 *		
16.	Gerontology.		•				
17.	Hox genes.						
18.	Chorionic villi sampling.						
19.	Theory of Epigenesis.						
20.	Notogenesis.						
21.	Graffian follicle.						

(8 x 2 = 16 Marks)
 Answer any six of the following (Not to exceed 120 words. Each question carries 4 marks).

23. Classify extra embryonic membranes in chick. Mention its functions.

24. Name the foetal membranes and mention their functions.

Implantation

22.

- Write a note on concept of germ layers.
- 26. Explain cell lineage in planocera.
- 27. Sketch and label the fate map of frog.
- Distinguish between rotational and spiral cleavage. 28.
- Briefly explain Spemann's constriction experiment. 29.
- What is meant by cleavage? Comment on different types of cleavages. 30.
- What is blastula? What are the different types of blastula. 31.

 $(6 \times 4 = 24 \text{ Marks})$

- Answer any two of the following. Each carries 15 marks.
- Explain various morphogenetic movements. 32.
- Explain hormonal control of amphibian metamorphosis. 33.
- Explain the features of 24 hour chick embryo. 34.
- What is parthenogenesis? What are the different types of parthenogenesis and 35. add a note on its significance.

 $(2 \times 15 = 30 \text{ Marks})$