### 2022

## **ZOOLOGY**

## [HONOURS]

# (B.Sc. Sixth Semester End Examination-2022) PAPER-C13T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary

#### Group A

- 1. Answer any FIVE questions of the following: 5x2=10
- a) What is cell differentiation?
- b) What is totipotency and pleuropotency?
- c) What is fate map?
- d) What is yolk plug?
- e) Differentiate epiboly and emboly.
- f) Differentiate between syndesmochorial and endotheliochorial placenta.
- g) What is transplantation?
- h) What is involution?

## Group B

- 2. Answer any FOUR questions of the following: 4x5 = 20
- a) Briefly describe the types of placenta in mammals.

5

c) Schematically show the process of oogenesis. Give examples of

5

b) Write about the Acrosomal reaction.

	telolecithal, megalecithal & oligolecithal eggs.	3+2
d)	Write down the role of Sentoli cells and Leydigs cell	s in
	spermatogenesis. $2\frac{1}{2}$	$2\frac{1}{2}$
e)	Distinguish between specification and Determination in res	pect
	of commitment.	5
f)	Differentiate somatopleure and splanchnopleure. What are	the
	functions of Allantois.	2+3
Group C		
3.	Answer any ONE questions of the following: 1x10	= 10
	Time were any or a property of the property of	10
a)	Write down the major events of development of eye in c	
		hick.
	Write down the major events of development of eye in co. What is morphallaxis? Describe the process of morphallax	hick.
	Write down the major events of development of eye in c. What is morphallaxis? Describe the process of morphallax Hydra.  5-1	hick. is in
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