# PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

# **MSc DEGREE EXAMINATION MAY 2023**

(Second Semester)

### Branch - ZOOLOGY

## **EXPERIMENTAL EMBRYOLOGY**

		<u>EM EMMENTAL</u>	TUIVAL	DK10L001
Ti	me:	: Three Hours	•	Maximum: 50 Marks
		SECTION-A Answer ALI ALL questions carry 1	. que	stions
1				Brown and green pigments Brown and yellow pigments
2		It is an embryonic tissue which organiz embryo.  (i) Promoter	es the	
3		The transplantation is done between two called  (i) Autoplastic transplantation	o spe	
4		The first test tube baby was  (i) Louise Brown	(ii) l	Robert Edwards Mc Brown
5			• •	Wound closure Blastema formation
		SECTION - B Answer ALL ALL Questions Carry	Que	stions
6	a	State the egg cortex with suitable illustrations.  OR		
7	b a b	Comment on the origin of egg polarity.  Explain the structure and properties of organizer.  OR  Classify the types of differentiation.		
8	a	Illustrate the Roux experiment on embryo with appropriate examples.  OR		
9	b a	Categorize different types of xenotransplantation.  Discuss the role of Rh factor in foetus development.		
10	b a	OR  Describe the government programs in Illustrate the physiological changes in		•
10	a b	OR	,	

#### 22ZOP205/18ZOP05

Cont...

### SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

- 11 a Elucidate the nucleus and its significance of development of embryo.

  OR
  - b Categorize the role of gene in embryo development.
- 12 a Interpret the different experiments of organizers.
  - b Assess Waddington's experiment on embryonic induction.
- 13 a Analyze the procedure of foetal tissue transplantation.
  - b Comment on cryopreservation and its importance.
- 14 a Categorize the test tube babies-ethics.

OR

- b Differentiate various types of twins and its embryological significance.
- 15 a Classify the types of regeneration in Amphibia.

OR

b Elucidate the goals and mechanism of teratology.

Z-Z-Z

**END**