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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022

(Second Semester)

Branch-ZOOLOGY

EMBRYOLOGY

Time:	Three Hours	· · ·	Maximum: 5	60 Marks
	ALL q	SECTION-A (Answer ALL of the second	questions	$(5 \times 1 = 5)$
1.	During Oogenesis each (i) Four functional egg (ii) Two functional egg (iii) One functional egg (iv) Four functional boo	gs. gs and two polar l and three polar l	oodies.	
2.	This is also known as r (i) Partial (iii) Equal holoblastic		(ii) Unequal holobla (iv) Superficial	
3.	Which embryonic stage (i) The morula (iii) The blastocyst		(ii) The blastula (iv) The gastrula	
4.	The placenta or umbi mother and the foetus. (i) Nervous system (iii) Spiracle system		(ii) Transporting sy (iv) Digestive gland	stem d
5.	Which of the followin capable of renewing. (i) Sertoli cells (iii) Laydig cells	g cells have abil	ity to give rise to spe (ii) Stem cells (iv) Bee cells	cialized cell types and
		SECTION - B Answer ALI Questions Carry	(15 Marks) Questions EQUAL Marks	$(5 \times 3 = 15)$
6. a.		O]	ms. R	
7. a			R	
1	o. Give a short notes on	the organogenes		
8. a		. O	R ses of Chick	
b 9. 8				

OR

Describe the sexual cycle of mammals.

10. a. Write notes an embryo transfer in animals.

 $\cap \mathbb{R}$

b. Explain the Quadriparental hybrids in animals.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11.a. Write an essay on Spermatogenesis.

OR

- b. Give an account on Parthenogenesis.
- 12.a. Discuss the fate-map and gastrulation in Amphious

OR

- b. Write a detailed account on organogenesis of brain development in frog.
- 13.a. Give an account on embryonic induction in Vertebrates.

OR

- b. List out the process of chick development during 72 and 96 hours of incubation.
- 14.a. Write an essay on embryogenesis in Rabbit.

OR

- b. Describe the role of hormones and its impact on sexual cycle.
- 15.a. Explain the artificial insemination in mammals and its significance.

OR

b. Discuss the role of embryonic stem cells production with suitable example.

Z-Z-Z END