IUI/VL rAuns:

18ZOU05/14ZOU05

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019

(Second Semester)

Branch - **ZOOLOGY**

EMBRYOLOGY

Time:	Three Hours	Maximum: 75 Marks
	SECTION-A (10 Marks)	
		ALL questions carry EQUAL marks (10 x 1 " 10)
	•	- ,
1	The middle piece of spermatozoo (i) Nucleus	on is composed of (ii) Nucleolus
	(iii) Ribosomes	(iv) Mito chondria
2	The ova or eggs containing moderate amount of yolk are called	
	(i) Microlecithal	(ii) Mesolecithal
	(iii) Macrolecithal	(iv) Alecithal
3	The first cleavage plane of styela is	
	(i) Meridional	(ii) Latitudinal
	(iii) Horizontal	(iv) All
	A chart showing the fate of each part of an early embryo in a particular	
	blastula is called	(ii) Enjouverie
	(i) Fate map (iii) Involution	(ii) Epiauxesis(iv) Concrescence
_		
5	In 48 hours chick embryo, the tal (i) 'J' shaped	(ii) 'S' shaped
	(iii) 'T' shaped	(iv) 'Z' shaped
6	Which of the following is provides a kind of private aquarium?	
O	(i) Amnion	(ii) Chorion.
	(iii) Yolk sac	(iv) Allantois
7	Diffuse placenta is found in	
	(i) Pig	(ii) Horse
	(iii) Lemur	(iv) All
8	hormone is injected to induce oestrous cycle.	
	(i) Progesterone	(ii) Thyroxine
	(iii) Estrogen	(iv) LTH
9	The cells taken from mesoderm g	
	(i) Bone marrow	(ii) Blood cells
	(iii) Adrenal cortex	(iv) All
10	The transfer of fertilized and developing egg into the uterus of mother is called	
	(i) Embryo transfer	(ii) Birth control
	(iii) Cloning	(iv) Artificial insemination

Cont...

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SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry **EQUAL** Marks ($5 \times 7 = 35$)

11 a What is parthenogenesis? Explain its types.

OR

- b Classify eggs and cite examples.
- 12 a Explain the development of eye in frog.

OR

- b Describe the mechanism of gastrulation in Amphioxus.
- 33 a Enlist the characteristic features of 48 has chick embryo.

OR

- b Discuss briefly the extra-embryonic membrances in chick.
- 14 a Examine critically the role of hormones in sexual cycle.

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- b Briefly describe the types of placenta in mammals.
- 15 a Give a brief account on artificial insemination.

OR

b Write a short account on embryo transfer technique.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks $(3 \times 10 = 30)$

- Discuss the process of Oogenesis.
- With suitable diagram, explain the development of heart in frog.
- Explain in detail the embryogenesis of chick.
- 19 Describe the embryogenesis of rabbit.
- Explain the following (i) Embryo cloning (ii) Embryonic stem cells.

Z-Z-Z

END