

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Second Semester)

Branch – ZOOLOGY

EMBRYOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks

$$(5 \times 1 = 5)$$

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

$$(5 \times 3 = 15)$$

- 6 a Explain the function of sperm.
OR
b Narrate the significance of fertilization.

7 a Describe the fate map of blastula in frog.
OR
b Sketch the structure of brain in frog.

8 a Draw the layout of the chick egg.
OR
b Briefly explain the embryonic gastrulation in chick.

9 a What is blastocyst? How does it formed?
OR
b Classify the placenta mammals.

10 a Briefly describe the embryo transfer implantation.
OR
b Narrate the advantages of in-vitro fertilization.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

11 a Enumerate the process of fertilization in Mammal.

OR

b Elucidate the structure and function of egg membranes.

12 a Write an elaborate account on pattern of cleavage in frog.

OR

b Discuss the formation of heart during the development of frog.

13 a Discuss the formation of the blastula during the development of chick.

OR

b Enumerate the extra embryonic membranes of chick.

14 a Write an account note on pattern of cleavage in rabbit.

OR

b Elucidate the major functions of placenta.

15 a Justify the advantages and disadvantages of artificial insemination.

OR

b Examine the embryonic stem cell therapy.

Z-Z-Z

END