

**PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BSc DEGREE EXAMINATION MAY 2018  
(Second Semester)**

**Branch- ZOOLOGY**

**EMBRYOLOGY**

**Time : Three Hours**

**Maximum : 75 Marks**

**SECTION-A (20 Marks)**

**Answer ALL questions**

**ALL questions earn EQUAL marks**

**(10 x 2 = 20)**

- 1 Primordial germcells.
- 2 Polar body.
- 3 Fate map.
- 4 Gastrula.
- 5 Morula.
- 6 96 hours of chick embryo.
- 7 Cleavage.
- 8 Blastocyst.
- 9 Embryonic stemcells.
- 10 IVF.

**SECTION - B (25 Marks!)**

**Answer ALL Questions**

**ALL Questions Carry EQUAL Marks (5 x 5 = 25)**

- 11 a What is parthenogenesis? Explain its types and significances.  
OR  
b Describe the process of Oogenesis.
- 12 a Describe the mechanism of gastrulation in frog.  
OR  
b Explain the development of ear in frog.
- 13 a Enumerate the salient features of 48 hours of chick embryo.  
OR  
b Give a brief account on embryonic induction in vertebrates.
- 14 a Explain the role of hormones in sexual cycle.  
OR  
b Discuss the types of placenta in Mammals.
- 15 a Comment on quadriparental hybrids,  
OR '  
b Give a brief note on production of chimeric mouse. .

**SECTION - C (30 Marks!)**

**Answer any THREE Questions**

**ALL Questions Carry EQUAL Marks (3 x 10 = 30)**

- 16 Explain the structure of a mammalian sperm and add a note on its types.
- 17 With suitable diagram, discuss the development of eye in frog.
- 18 Write a detailed account on embryogenesis of chick.
- 19 Discuss elaborately the embryogenesis of rabbit.
- 20 Explain the following: (i) Artificial insemination (ii) Embryo transfer.

**Z-Z-Z**

**END**