

**PSG COLLEGE OF ARTS & SCIENCE**  
(AUTONOMOUS)  
**BSc DEGREE EXAMINATION DECEMBER 2017**  
(Second Semester)  
Branch - **ZOOLOGY**  
**EMBRYOLOGY**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks (10x2 = 20)

**Answer in one or two sentences:**

- 1 Sertoli cells.
- 2 Graafian follicles.
- 3 Fate map.
- 4 Blastula.
- 5 Inductor.
- 6 72 hours chick embryo
- 7 Blastocyst.
- 8 Cleavage.
- 9 IVF.
- 10 Stem cells.

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

Answer **ALL** Questions

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

- 11 a Classify eggs and cite examples.  
OR  
b Explain the process of oogenesis.
- 12 a Discuss the mechanism of gastrulation in Amphioxus.  
OR  
b Explain briefly the development of heart in frog.
- 13 a Write down the salient features of 24 hours of chick embryo.  
OR  
b Enlist the salient features of 48 hours of chick embryo.
- 14 a Examine critically the role of hormones in sexual cycle.  
OR  
b Explain the structure of egg.
- 15 a Comment on embryo cloning.  
OR  
b Describe the production of chimeric mouse.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

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

- 16 Explain the process of Spermatogenesis.
- 17 With suitable diagram, describe the development of brain in frog.
- 18 Write an essay on extra embryonic membranes of chick.
- 19 Discuss elaborately the types of placenta in mammals.
- 20 Explain the following: (i) Artificial inremination  
(ii) Embryo transfer

**Z-Z-Z**

**END**