

BSc DEGREE EXAMINATION MAY, 2017  
(Sixth Semester)

Branch- BIOTECHNOLOGY

ANIMAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 What are cleavage patterns?
- 2 Writ the merits of ICSI.
- 3 What is balanced salt solution?
- 4 Narrate the role of carbondioxide in animal tissue culture media.
- 5 Define apoptosis. .
- 6 Explain about cryo preservation method.
- 7 Give short notes on selectable markets.
- 8 Name the physical methods of transfection.
- 9 Write notes on transgenic molly.
- 10 Define the term transgenics.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5x5 = 25)

- 11 a Explain about the process of Gametogenesis.  
OR  
b Narrate the steps involved in collection and preservation of embryos.
- 12 a Explain about the advantages and disadvantages of serum containing media.  
OR  
b Narrate the history of events in animal cell culture.
- 13 a Explain about the enzymatic method of cell disaggregation.  
OR  
b Write notes on organ culture.
- 14 a . Write about the role of viral vectors in transfection.  
OR  
b Give short notes on micro manipulation of cells.
- 15 a Explain about embryonic stem cell method.  
OR  
b Explain about the advantages of cell culture based vaccines with example.

SECTION - C (30 Marks)

Answer any THREE Questions .

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

- 16 Explain in detail about IVF and semen banking.
- 17 What are the essential equipments required for animal cell culture laboratory.
- 18 Explain in detail about primary and secondary cell culture methods.
- 19 . Explain about gene knock out technique and its applications.
- 20 Narrate the ethical issues related to animal biotechnology..