



**R-3835-36**

**M. Sc. (Sem. VI) (Integrated Biotechnology)  
Examination**

**May / June – 2010**

**IBT-601 : Animal Biotechnology  
(New Course)**

Time : 3 Hours]

[Total Marks : 70

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**Instructions :**

(1)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवडी पर अवश्य लपनी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. Sc. (Sem. 6) (Integrated Biotechnology)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="IBT-601 : Animal Biotechnology (New)"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="8"/> <input type="text" value="3"/> <input type="text" value="5"/>	Section No. (1, 2,.....) : <input type="text" value="1"/>
Student's Signature	

- (2) Figures to the right indicate full marks of the question.  
(3) Draw neat and labeled diagrams whenever necessary.  
(4) Both sections must be written in **separate** answer books.

- 1 Attempt the following : 5
- (1) What is autoantibody fingerprinting ?  
(2) Define plasma clot.  
(3) What are histotypic cultures ?  
(4) State role of aminopterin in HAT media.  
(5) Define euploidy.

- 2 Describe in general applications of animal biotechnology. 10

**OR**

- 2 Write a full account on the history and development of the concept of animal biotechnology. 10

- 3 (a) Describe the steps involved in initiating and maintaining cell cultures. 6  
(b) Describe sterilization methods in TC laboratory. 4

**OR**

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**1**

**[Contd...**

- 3 Elaborate the following : 5  
 (a) Somatic cell fusion 5  
 (b) Expression of induced genes.
- 4 Short notes : (any two) 10  
 (a) Safety in animal biotechnology  
 (b) Cytotoxicity measurement  
 (c) Gene cloning.

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**Instructions :**

(1)

<p>नीचे दृशाविले निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी.          Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :  <input style="width: 100%;" type="text" value="M. Sc. (Sem. 6) (Integrated Biotechnology)"/></p> <p>Name of the Subject :  <input style="width: 100%;" type="text" value="IBT-601 : Animal Biotechnology (New)"/></p> <p>Subject Code No. : <input style="width: 20px;" type="text" value="3"/> <input style="width: 20px;" type="text" value="8"/> <input style="width: 20px;" type="text" value="3"/> <input style="width: 20px;" type="text" value="6"/> Section No. (1, 2,.....): <input style="width: 20px;" type="text" value="2"/></p>	<p>Seat No. : <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; margin-top: 10px;"> <p>Student's Signature</p> </div>
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- (2) Figures to the right indicate full marks of the question.  
 (3) Draw neat and labeled diagrams whenever necessary.  
 (4) Both sections must be written in **separate** answer books.

- 4 Answer the following : 5  
 (1) Define backyard breeding.  
 (2) What is monosex progeny ?  
 (3) Define Superovulation.  
 (4) What is the role of IAEC ?  
 (5) What is Intra Cytoplasmic Sperm Injection ?
- 6 Describe artificial breeding techniques. 10  
 OR  
 6 Describe designing of animal house. 10
- 7 Give an account on transplantation techniques. 10  
 OR  
 7 Describe transgenic sheep. 5  
 Describe transgenic cattle. 5
- 8 Short notes on any two : 10  
 (1) Cryopreservation of cell lines  
 (2) Preservation of embryos  
 (3) Need and advantage of animal cell manipulation.