	Uiedh
Name :	
Roll No.:	To Date of Exercising and Exercised
Invigilator's Signature :	

# GENETIC TECHNOLOGY – SOCIAL, LEGAL AND ETHICAL ISSUES

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

#### **GROUP - A**

## ( Multiple Choice Type Questions )

1. Choose the correct alternatives for any *ten* of the following :

 $10\times1=10$ 

- i) The full form of GATT is
  - a) Generalized Analysis of Trade and Travel
  - b) General Agreement on Tariffs and Trade
  - c) General Applications of Travel and Tourism laws
  - d) Geographical Analysis of Tour and Trade.

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ii) Computer programs are protected by copyrights unde

- a) TRIPS
- b) Paris Convention
- c) Berne Convention
- d) None of these.
- iii) EPC stands for
  - a) European Patent Convention
  - b) Elementary Patent Conservation
  - c) European Patent Council
  - d) Essential Protocol Council
- iv) Intellectual property rights may be protected by

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- a) Patents and copyrights
- b) Trade marks and service marks
- c) Publications and exposition
- d) Both (a) and (b).

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- v) Any trade mark, trade secret or copyright held by the entrepreneur is known as
  - a) Disclosure document
  - b) Patent
  - c) Intellectual property
  - d) None of these.
- vi) In relation to patents, where an employee creates an invention during the normal course of employment and it relates to his/her duties at work, the intellectual property belongs to which of the following?
  - a) The employee
  - b) It depends on the specific nature of the employment contract
  - c) The board of directors ( if applicable )
  - d) The employer.

- vii) Which of the following is not a focus of intellectual property law?
  - a) To protect the product of a mental effort
  - b) To prevent people from copying others' ideas
  - c) To encourage the free flow of new ideas
  - d) To give the creator the right to benefit from it.
- viii) Which of the following cannot be protected by copyright?
  - a) Literary work
  - b) Musical compositions
  - c) Folklore
  - d) Graphic works.
- ix) The criteria for patenting is/are
  - a) of practical benefit
  - b) capable of being industrially reproduced
  - c) must be original
  - d) all of these.

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a) oncomouse

X)

- b) climbing rose
- c) live forms
- d) none of these.
- xi) Which of the following are requirements for copyright protection?
  - a) The works must be fixed
  - b) The works must be original
  - c) The works must be creative
  - d) All of these.
- xii) Which of the following transgenic animals first produced spider silk protein in milk?
  - a) Transgenic cow
  - b) Transgenic goat
  - c) Transgenic sheep
  - d) Transgenic mice.

#### **GROUP - B**

# (Short Answer Type Questions)

Answer any three of the following.

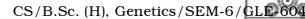


2. What is the WTO Agreement and what do its annexes

cover?

3. What are the rights conferred by a trade mark? Give two examples of each distinctive and non-distinctive uses of the term 'trade mark'. 3+2

- 4. Why are the IPRs protected ? Can computer software be protected by copyright ? 4+1
- 5. Write two applications of transgenic pigs. 5
- 6. Write a short note on DNA microinjection.567096



#### **GROUP - C**

# (Long Answer Type Questions)

Answer any *three* of the following.  $3 \times 15 = 45$ 

- 7. Define patents. Discuss various requirements and the process of award of a patent. 5 + 5 + 5
- 8. What are the broad issues of WTO's TRIP agreements? Write in brief about the various forms of protection of intellectual property and discuss the advantages offered by trade secret. 5+8+2
- Discuss a case in detail involving the patentability of live forms.
- 10. Write short notes on any *three* of the following :  $3 \times 5$ 
  - a) Copyrights
  - b) Diamond vs Chakravarty case
  - c) Patenting r-DNA
  - d) DNA fingerprinting
  - e) Trade marks
  - f) Requirements of a patent.

11. What is xenoransplantation? Discuss why non-human primates are not preffered as donors for xenotransplantation. Discuss why pigs are preffered as xenograft donor. Discuss the barriers of xenotransplantation. 2+3+2+8

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