



Name :

Roll No. :

Invigilator's Signature :

**CS/M.Sc. (Genetic)/SEM-4/MSGEN-401/2010
2010**

GENETIC ENGINEERING IN BUSINESS

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 × 1 = 10

i) Human domesticated crops in the year

- | | |
|--------------|-------------------|
| a) 8000 BC | b) 10,000 BC |
| c) 20,000 BC | d) none of these. |

ii) Human domesticated animal in the year

- | | |
|--------------|-------------------|
| a) 6000 BC | b) 8000 BC |
| c) 10,000 BC | d) none of these. |

iii) Human brewed beer in the year

- | | |
|------------|-------------|
| a) 8000 BC | b) 6000 BC |
| c) 4000 BC | d) 3000 BC. |



GROUP – C

(Long Answer Type Questions)

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

9. What is Biorefinery concept ? How would Bio-based energy and Bio-based products make environment profile clean ?
7 + 8
10. What is Animal Biotechnology ? How are Biotech products helping farmers to meet consumer demand by providing high quality and safe food that is available in a reliable and consistent manner ?
5 + 10
11. What is GM Food ? Recently FDA (USA) has made an announcement (USA about GM Food) stated as "Foods derived from clones and progeny of clones are indistinguishable (as safe as) from conventional food." Explain the scientific reasons about the same statement.
5 + 10
12. What is transgenic technology ? What are the medical applications of same technology such as xenotransplantation, tissue engineering and production of human medicine ?
5 + 10
13. What are the applications of Plant Biotechnology in crop management ? How are Biotech crops globally accepted among the farmers ? What is the future of Agriculture Biotechnology ?
5 + 5 + 5
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