054

[Total No. of Printed Pages: 3

Roll No. .....

Total No. of Questions: 26]

SS

## 2117

## ANNUAL EXAMINATION SYSTEM

## BIOLOGY (Theory)

(English Version)

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Time	all	owed	Three	nours

Maximum marks: 70

- Note: (i) You must write the subject-code/paper-code page of your answer-book.

  054 in the box provided on the title
  - (ii) Make sure that the answer-book contains 30 pages (including title page) and are properly serialed as soon as you receive it.
  - (iii) Question/s attempted after leaving blank page/s in the answer-book would not be evaluated.
  - (iv) Draw well labelled diagrams, wherever necessary.
  - (v) The paper comprises of 26 questions.
  - (vi) Question Nos. 1 to 8 are of one mark each. All questions are compulsory.
  - (vii) Question Nos. 9 to 16 are of two marks each. All questions are compulsory.
  - (viii) Question Nos. 17 to 23 are of four marks each. All questions are compulsory however there is internal choice only in Question no. 22 and 23.
    - (ix) Question Nos. 24 to 26 are of six marks each. There will be internal choice in them.

## Attempt all questions.

- 1. What do you mean by food chain?
- 2. What do you mean by co-dominance? Give its example.
- 3. What is Mutation?
- 4. What is double fertilization?
- Polyembryony.
- 6. What is genetic code?
- 7. What is tissue culture technique? Write its applications.

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- 1

[Turn over

8.	Write the structure of DNA.	1
9.	Habitat and niche.	2
10.	What is global warming? Write some methods of its reduction.	2
11.	Draw labelled diagram of male reproductive system. (Diagram only).	2
12.	What are Transgenic Animals? Explain it with some examples.	2
13.	What is Biological Evolution? Explain Evidences for biological evolution on Palaeonto basis.	ological 2
14.	Methods used for Birth control.	2
15.	How Pollination helps variation and evolution?	2
16.	Give concept of Biodiversity. Write about importance of Biodiversity.	2
17.	Why human genome project is called a Mega Project ?	4
18.	Write about Menstrual cycle. Explain it with help of diagram.	4
19.	What is Transcription? Explain it in detail.	4
20.	What are Genetically modified organism? Give some examples.	4
21.	Mendel's law of independent assortment. Prove its Genotype ratio.	4
22.	Application of Biotechnology in health and agriculture.	
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	What is Nutrient cycling? Explain Carbon and Phosphorous cycle.	4
23.	What is Air-Pollution? Give its reasons, cause and control.	
	or	
	Explain female reproductive system. Explain with labelled diagrams.	4

24.	What is Vegetative Propagation	? Give various Natural methods of vegetative Propagation
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or

Explain following terms:

- (a) Solid waste management.
- (b) Deforestation.

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- 25. (a) Define crossing over. Give its significance.
  - (b) Genetic code.

or

- (a) What do you mean by disease ? Explain Parasites and Pathogens.
- (b) What is sexual dimorphism? Give one example of it.

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26. Describe HIV.

Or

- (a) Difference between a Cancerous cell and Normal cell.
- (b) What is Food Web?

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