

This Question Paper contains 4 Printed Pages.

20E(A)

GENERAL SCIENCE, Paper - II

(English version)

Parts A and B

Time : 2½ Hours

Maximum Marks : 50

Instructions :

1. Answer the questions under **Part-A** on a separate answer book.
2. Write the answers to the questions under **Part-B** on the Question Paper itself and attach it to the answer book of **Part-A**.

Part - A

Time : 2 Hours

Marks : 35

SECTION - I

4×1=4

NOTE :

1. Answer **ANY FOUR** questions from the following.
2. Each question carries **ONE** mark.

1. How does Carbon-di-oxide diffuse in submerged plants ?
2. What is Saline ?
3. Name the membranes that cover the brain of human beings.
4. How do Amplexusory pads help the frog ?
5. Which cells of the body are responsible for Obesity and why ?
6. What are Mangroves ?

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PTO.

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SECTION - II

5×2=10

- NOTE :**
1. Answer **ANY FIVE** questions, choosing atleast **TWO** from each Group **A** and **B**.
 2. Each question carries **TWO** marks.

GROUP - A

7. What are the factors that are essential for Photosynthesis ?
8. Draw the structure of Chloroplast and label the parts.
9. What are the effects of Cytokinins on plant growth ?
10. Write a brief note on HIV.

GROUP - B

11. What prevents self fertilization in Earthworm, even though it is a hermaphrodite ?
12. What is Embryo rescue ? When is this method followed ?
13. In what way, Calcium helps the body ?
14. What are Biofertilizers ? Give some examples.

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SECTION - III

4×4=16

NOTE :

1. Answer **ANY FOUR** questions from the following, choosing atleast **TWO** from each group **A** and **B**.
2. Each question carries **FOUR** marks.

GROUP - A

- ~~15.~~ How can you show experimentally that heat is liberated during respiration in germinating seeds ?
- ~~16.~~ What is Hypertension ? How is it caused ? Mention the preventive steps to be taken.
17. "Plant growth substances act together or against each other." Give suitable examples in support of the statement.
18. Describe the structure of Neuron with the help of a neat labelled diagram.

GROUP - B

- ~~19.~~ Write the differences between Asexual and Sexual reproduction.
20. Why do you call Pituitary gland as master gland of the body ? Write about it.
- ~~21.~~ Write a brief note on 'Kwashiorkor' effects on children.
- ~~22.~~ What are the different type of fractures seen in limbs of a person ?

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P.T.O.

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SECTION - IV

1×5=5

- NOTE :**
1. Answer **ANY ONE** question from the following.
 2. This question carries **FIVE** marks.

23. Draw a neat labelled diagram of human heart showing external features.
24. Draw the diagram of longitudinal section of Datura flower and label its parts.
