



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 6th Semester Examination, 2023

DSE-P3-TEA SCIENCE

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

The question paper contains TEA ENTOMOLOGY, and TEA GARDEN MANAGEMENT.

**The candidates are required to answer any *one* from *two* papers.
Candidates should mention it clearly on the Answer Book.**

TEA ENTOMOLOGY

1. Answer any **five** from the following: 1×5 = 5
 - (a) Name two animals belong to class Insecta.
 - (b) What do you mean by compound eye?
 - (c) What is the Scientific name of Tea Mosquito Bug?
 - (d) Name two major insect pests in paddy.
 - (e) Name two biological vectors.
 - (f) Write the two characters of order Araneae.
 - (g) Write two characters of order Hemiptera.
 - (h) What are the uses of dragonfly?

2. Answer any **three** from the following: 5×3 = 15
 - (a) Write a short note on distribution of Insects on the Earth.
 - (b) Write a short note on wings and wing articulation of Insects with suitable diagram.
 - (c) Write a note on metamorphosis.
 - (d) Write a short note on nervous system of Insects.
 - (e) Write the general characters of class Insecta.

3. Answer any **two** from the following: 10×2 = 20
 - (a) Write the life cycle of *Hyposidra talaca* with suitable diagram. 10
 - (b) Write in detail about different mouth parts of Insects with suitable diagram. 10
 - (c) Write in detail about Social Insects. 10
 - (d) Briefly discuss about houseflies and mosquitoes as an important vectors. 10

OR

TEA GARDEN MANAGEMENT

1. Answer any *five* of the following: 1×5 = 5
- (a) What is de-budding in young tea pruning?
 - (b) Name one rehabilitating plant for tea garden.
 - (c) What is re-planting?
 - (d) Give one example of tea insect pest.
 - (e) What is vermiculture?
 - (f) Give one example of weed plant in tea garden.
 - (g) What is the causal organism of red rust disease in tea?
 - (h) What should be the ideal pit size for planting young tea?
2. Answer any *three* of the following: 5×3 = 15
- (a) Write a short note on rehabilitation of land in young tea plantation. 5
 - (b) Briefly write drainage system in tea. 5
 - (c) What is mulching? Write its benefits in tea gardens. 2+3
 - (d) What are weeds? Discuss different weed control techniques in tea gardens. 1+4
 - (e) Briefly give a note on planting population, planting materials and techniques of planting of young tea in the garden. 5
3. Write any *two* of the following: 10×2 = 20
- (a) Give a detail account of young tea management. 10
 - (b) Discuss integrated pest management with special reference to tea. 10
 - (c) Why irrigation is essential in tea plantation? Briefly discuss different methods of irrigation in tea. 2+8
 - (d) What are shade trees? Give some examples of shade trees in tea gardens. Write the advantages and disadvantages of shade trees in tea plantation. 1+2+7

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