

1 (Sem-3) BVHPT 02

B.Voc (NEP) 3rd Semester Exam., 2024

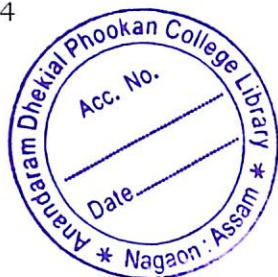
HERBAL PROCESSING TECHNOLOGY

Paper : HPT0300204

(Soil Analysis)

Full Marks : 60

Time : 2½ hours



*The figures in the margin indicate full marks
for the questions*

1. Fill in the blanks :

1×7=7

- (a) Nitrogen is absorbed by plant roots in the form of ____.
- (b) C:N ratio which results in net mineralization is ____.
- (c) The chemical formula of calcium carbonate is ____.
- (d) The full form of GIS is ____.
- (e) The high analysis N fertilizer is ____.
- (f) The full form of NPK is ____.
- (g) The full form of EDTA is ____.

(2)

2. Answer the following :

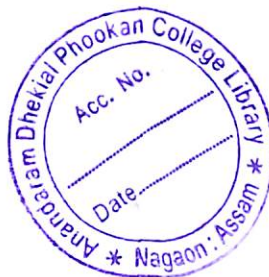
2×4=8

- (a) Define soil analysis.
- (b) Define soil texture.
- (c) What is the meaning of soil tillage?
- (d) Write the full form of SOC and EC.

3. Write short notes on (any *three*) :

5×3=15

- (a) Calcium carbonate
- (b) Soil health card
- (c) Differences between fertilizer and manure
- (d) Reclamation of loose and fragile soil
- (e) Electric conductivity of soil



4. Answer the following (any *three*) :

10×3=30

- (a) Explain the protocol of soil pH determination.
- (b) Write about the soil bulk density and soil hydraulic conductivity.
- (c) Describe the various methods of soil texture determination.

(3)

- (d) What is pesticide? Write the techniques of controlling pesticides in cultivation.

5+5=10

- (e) How can you determine gypsum content of soil? Explain.
