

2023

HERBAL PROCESSING TECHNOLOGY



Paper : HPT-VC-3016

(Soil Analysis)

Full Marks : 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Fill in the blanks :

1×7=7

- (a) The chemical formula of H_2O is _____.
- (b) The full form of NPK is _____.
- (c) The soil textural class has clay content more than 45%, then it will be known as _____.
- (d) _____ type of soil is the most fertile soil.
- (e) The study of soil constituents an independent branch of science is known as _____.
- (f) The ratio of sawdust is _____.
- (g) _____ of the process evades the soil formation.

2. Answer the following questions : 2×4=8

- (a) Define soil analysis.
- (b) Write the chemical formula of calcium carbonate and carbon dioxide.
- (c) Define organic carbon.
- (d) What is soil bulk density?

3. Write short notes on any *three* of the following :

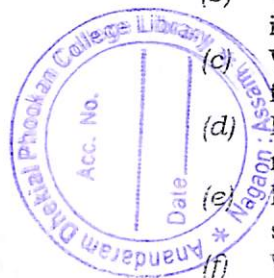
5×3=15

- (a) Soil salinity
- (b) Hydraulic conductivity of soil
- (c) EC
- (d) Soil physical structure
- (e) Determination of soil nitrogen

4. Answer any *three* of the following questions briefly :

10×3=30

- (a) Write the process of soil pH determination.
- (b) What is soil health card and its importance?
- (c) What is fertilizer? Differentiate between fertilizer and manure.
- (d) Explain about integrated nutrient management practices.
- (e) Explain the different types of testing soil texture.
- (f) What are soil analysis methods and the purposes of soil analysis?



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