

B.Sc.(Hons) Sem VI
Practical examination 2021
BOTA
Paper DSE A (Natural Resource Management)

F.M. 30

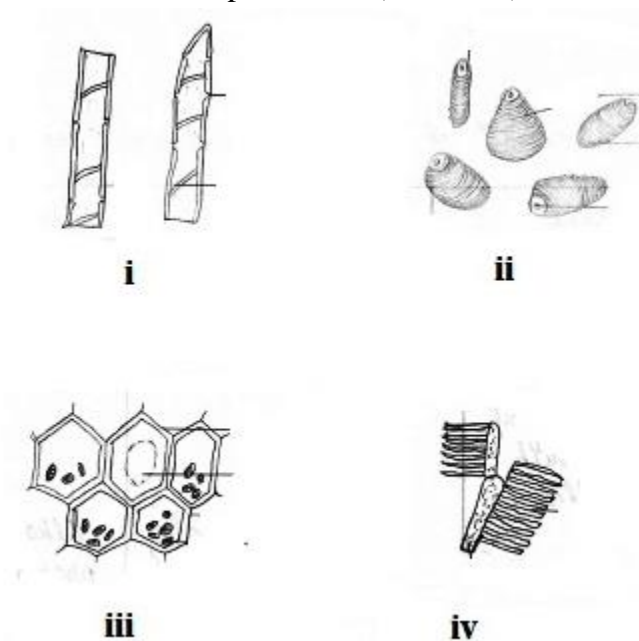
Time:1 hour 30 mins

Answer **any three** of the followings:

(3x10)

1. Write the powder microscopic characters of Specimen A (i, ii, iii, iv)

2½×4



Specimen A

2. Write the confirmatory test for Tannin and Alkaloid 5×2
3. Illustrate and comment on histochemical tests for Starch in non-lignified vessel 6+4
4. Write the requirements, procedures and observation on histochemical tests of alkaloids 2+5+3
5. Illustrate with diagram the organoleptic (Powder microscopy) of *Holarrhena* . 10

B.Sc.(Hons) Sem VI
Practical examination 2021
BOTA
Paper DSE B (Natural Resource Management)

F.M. 30

Time:1 hour 30 mins

Answer **any three** of the followings:

(3x10)

- 1.a) Briefly discuss about the process of foliar dust deposition. (3)
b) Write down the method of measurement of dust fall on leaves by Dry and Wet methods. (2+2)
c) How can you estimate the dust holding capacity of a leaf? (3)

- 2.a) Analyse about the different types of solid waste you can find in a domestic output. (4)
b) How can you sort different types of solid waste. (3)
c) What is quantification of solid waste? (3)

- 3.a) Expand followings:
i) TOC, ii) SOM, iii) SOC (3x1)
b) Write down the principle of estimation of organic carbon percentage of soil. (3)
c) Write down the procedure of estimation of organic carbon present in soil. (4)

- 4.a) Write down the different measuring process of canopy cover. (3)
b) Write the different ways to collect data on a forest cover. (3)
c) Propose different types of analytical ways to study plant community of forest area. (4)

- 5.a) What is soil? (1)
b) What are the different aspects of soil fertility? (3)
c) How domestic waste hamper land and its integrity? (6)