

5/05/15

# [Additional Exam]

05/05/2015

VCD -

- BOTANY-I

S.Y.B.Sc.

SEM IV

75 MARKS

2 1/2 HRS

80

- NOTE: 1. All questions are compulsory.  
2. Figures to right indicate marks.  
3. Draw labelled diagrams wherever necessary.

Botany  
Additional Exam

Q I Answer the following (Any Two)

(20)

- 1) Write a note on solid culture medium used for fungi.
- 2) Give a brief account of any four methods of obtaining pure cultures.
- 3) Classify media on the basis of components used.
- 4) Write a note on Heterotrophic bacteria.

Q II Answer the following (Any Two)

(20)

- 1) Structure of ovule and development of male gametophyte of *Pinus*.
- 2) Describe morphology and systematic position of *Selaginella*.
- 3) Write a note on salient features of Calamophyta.
- 4) Describe anatomical features of stem and leaf of *Calamites*.

Q III Answer the following (Any Two)

(20)

- 1) Give systematic position, distinguishing characters, floral formula and two plants of economic importance of the family "Apocynaceae"
- 2) Give systematic position, distinguishing characters, floral formula and two plants of economic importance of the family "Tiliaceae".
- 3) What are steps involved in preparing herbarium.
- 4) How can be a Botanical garden be designed?

Q IV Write short notes on (Any Three)

(15)

- 1) Advantages of Phosphate solubilizing bacteria.
- 2) Benefits of Green Manuring.
- 3) Describe root anatomy of *Selaginella*.
- 4) Systematic position of *Pinus*.
- 5) Significance of Botanical gardens.
- 6) Significance of Public gardens.

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