

05/05/2015

# [Additional Exam]

VCD -

- BOTANY-I

F.Y.B.Sc.

SEM II

75 MARKS

2 1/2 HRS

220

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

**Q I Answer the following (Any Two)**

(20)

- 1) Give the general characters of Pteridophyta.
- 2) Describe the different types of stele.
- 3) Explain the alternation of generation of *Nephrolepis*.
- 4) Explain the systematic position and external morphology of *Nephrolepis*.

**Q II Answer the following (Any Two)**

(20)

- 1) Explain the development of male gametophyte and structure of ovule of *Cycas*.
- 2) Explain the internal structure of *Cycas* pinna(leaf).
- 3) Write a short note on T.S. of young stem of *Cycas*.
- 4) Explain the external morphology of *Cycas*.

**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 Amaryllidaceae.
- 2) Describe different types of inflorescence.
- 3) Explain different types of venation in leaves.
- 4) Explain different types of leaf lamina.

**Q IV Write short notes on (Any Three)**

(15)

- 1) Dehescence of sporangium.
- 2) Sorus.
- 3) Economic importance of Gymnosperms.
- 4) Systematic position of *Cycas* with reasons.
- 5) Leaf and its parts.
- 6) Modification of leaves.

-----X-----X-----X-----