

06/05/2015

## Additional Exam

Botany - II  
S.Y.B.Sc.  
Sem IV

VCD -

- BOTANY-II

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 labeled diagrams wherever necessary.

Q.1 Answer the following (any two)

(20M)

- Explain structural defense with respect to structures formed after infection in plants.
- With the help of neat labeled diagram explain Inflexibility & Incompressibility.
- Give an account of various types of Vascular Bundles.
- Give a detailed account of Xylem.

Q.2 Answer the following (any two)

(20M)

- Explain in detail Xerarch.
- Explain plants as indicator of pollution.
- Write a note on Environmental legislation.
- Enlist different properties of phytochrome and explain role of phytochrome..

Q.3 Answer the following (any two)

(20M)

- Describe Poly A addition & Splicing in Eukaryotes.
- Describe the nature of genetic code.
- Explain: Termination & Elongation of transcription in prokaryotes.
- A dice is tossed 120 times with the following results:

Number turned up	1	2	3	4	5	6	Total
Frequency	30	25	18	10	22	15	120

Test the hypothesis that the dice is unbiased.

Given  $\rightarrow \alpha$  at 0.05 and df 5, chi-square ( $\chi^2$ ) is 11.07

Q.4 Write short notes on (any three)

(15M)

- Wobble Hypothesis
- Elongation of peptide bond in prokaryote
- Importance of Photoperiodism & Vernalisation
- National Park
- Armatures
- Plectostele & Mixed Stele