

**T.Y.B.SC. SEM – V (CBCS - 2016 Course) : SUMMER - 2019**  
**SUBJECT : BOTANY : ELECTIVE : a) AEROBIOLOGY**

Day : Wednesday  
Date : 24/04/2019

Time : 11.00 A.M. To 02.00 P.M.  
Max. Marks : 60

**S-2019-0886**

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**N. B. ;**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
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- Q. 1** Attempt **ANY TWO** of the following: **(12)**
- a) What is aerobiology? Give scientific contribution of Prof. S. T. Tilak.
  - b) Write note on intramural and extramural sampling.
  - c) Comment on airborne biological material as a fungi.
- Q. 2** Attempt **ANY TWO** of the following: **(12)**
- a) What is aerospora? Write a note on statistical analysis of aeromicrobiota.
  - b) Describe the effect of meteorological parameters on aerospora.
  - c) What is allergy? Explain the impact of aerobiopollutants on plants.
- Q. 3** Attempt **ANY TWO** of the following: **(12)**
- a) What is Bio-deterioration? Explain biodegradation with reference to air borne microbes.
  - b) Write the principles of plant disease forecasting in aerobiology.
  - c) Give the relevance of house dust mites.
- Q. 4** Attempt **ANY THREE** of the following: **(12)**
- a) Explain scientific contribution of Prof. T. Sreeramulu.
  - b) Comment on volumetric Tilak air sampler.
  - c) Explain logical interpretation of data.
  - d) Give impact of aerobiopollutant on animal diseases.
- Q. 5** Write short notes on **ANY FOUR** of the following: **(12)**
- a) Multi-disciplinary approach of aerobiology
  - b) Rotorod air sampler
  - c) Quantitative air sampling
  - d) Culturing of any one organism
  - e) Types of mites

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