

T.Y.B.SC. SEM – V (CBCS - 2016 Course) : WINTER - 2018

SUBJECT : BOTANY : ELECTIVE : a) AEROBIOLOGY

Day : Tuesday
Date : 23/10/2018

W-2018-0763

Time : 03.00 P.M. To 06.00 P.M
Max. Marks : 60

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) Define aerobiology and give multidisciplinary approach of aerobiology.
- b) What is sampling? Add a note on quantitative air sampling.
- c) Explain concept of aero biopollutants.

Q. 2 Attempt **ANY TWO** of the following: **(12)**

- a) What is aerospora? Describe its vertical distribution.
- b) What is Diurnal periodicity? Explain day and night spora with suitable examples.
- c) Define allergy. Give the impact of aerobiopollutant on skin diseases.

Q. 3 Attempt **ANY TWO** of the following: **(12)**

- a) Describe any one model used for plant disease forecasting in brief.
- b) What is biodeterioration? Give role of airborne microbes on biodeterioration.
- c) Give the impact of house dust mites on humans.

Q. 4 Attempt **ANY THREE** of the following: **(12)**

- a) Give scientific contribution of Prof. K. C. Mehta.
- b) Write note on extramural air sampling.
- c) Comment on horizontal distribution of aerospora.
- d) Explain impact of aerobiopollutant on human diseases.

Q. 5 Write short notes on **ANY FOUR** of the following: **(12)**

- a) Importance of aerobiology
- b) Qualitative air sampling
- c) Volumetric Tilak air sampler
- d) Culturing of any one organism
- e) Types of mites

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