

T.Y.B.SC. SEM – V (CBCS - 2016 Course) : WINTER - 2018
SUBJECT: BOTANY PLANT PATHOLOGY & PLANT PROTECTION

Day: Monday
Date: 15/10/2018

W-2018-0747

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.
 - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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Q.1 Attempt any **TWO** of the following: **(12)**

- a) Describe any two symptoms of fungal diseases.
- b) Explain 'Cock's Postulates'.
- c) Describe structural defense mechanism host to pathogen.

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

- a) What is disease triangle? Explain.
- b) Describe disease cycle of black stem rust of wheat.
- c) Explain crop-rotation for management of plant disease.

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

- a) Give symptoms of tikka disease of groundnut and black arm of cotton.
- b) Explain in short control of viral diseases.
- c) Describe in short chemical protection of plant diseases.

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

- a) Explain applications of remote sensing in plant pathology.
- b) Describe symptoms and control measures of little leaf of brinjal.
- c) Explain role of temperature and rainfall in development of epiphytotic.
- d) Explain 'molecular diagnosis' concept for disease identification.

Q.5 Attempt any **FOUR** of the following: **(12)**

- a) Give definition of host and pathogen.
- b) Explain physiological defense mechanism.
- c) Write in short IPM system in disease control.
- d) Explain in short Quarantine laws.
- e) Distinguish between sporadic and endemic.

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