

## THE OPEN UNIVERSITY OF SRI LANKA

B.Sc. DEGREE PROGRAMME

BOTANY-LEVEL 05	
BYU 5301/BYE5301 - PLANT PATHOLOGY	
ASSESSMENT TEST I (OPEN BOOK TEST)	
DURATION: ONE (01) HOUR	
Date: 24 <sup>th</sup> June 2018	Time: 10.30 am -11.30 am
	Registration No:
Answer ALL questions in the space provided.  1. There are four (04) responses for each of the followin appropriate response to each of the questions.	g questions.(i-iv). Clearly circle the most
	(2 x 12 marks)
II. Give the most appropriate term/ terms for the statem.  1. A pathogen or it's part which is capable of initiating.	

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2. Abiotic diseases caused by inanimate agents –
3. Enzymes that break down pectic acid chains –
4. The fungicide which is taken in and translocated within the plant –
5. The progressive increase in the incidence of a particular disease within a defined population
6. The plant which infected with a virus and carries the virus but, does not show any symptom -
-7. Development of floral organs into leaf-like structures -
8. Total or partial destruction of a pathogen population by using other organism for disease control -
9. The clustered appearance of leaves due to internodes of the plant failing to develop -
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10. The phase where the rate of increase of an infection is low during the development of an epidemic -
11. The series of steps which are to be followed to established the causative organism of any given disease *

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12. The inoculum that initiates a disease -
13. The series of events which take place in succession, in development and perpetuation of the disease and the pathogen -
14. The relationship between the amount of inoculum present and the rate of disease development -
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15. A group of microorganisms found in the phloem of diseased plant -
(2 x 15 marks)
III. Give a brief-account of the following:  1. The factors necessary for the proper dispersal of inocula by wind -
2 The series of enzymatic reactions carried out by cellulases produced by the pathogens
to breakdown the cellulose structures of plant cell wall during disease development -

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(5 x 6 marks)

3. The basic steps involved in the process of fungal spores germination -
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4. The elements which should be present in a favorable manner in the progressive increase in the occurrence of a particular disease within a defined population -
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5, The effect of the pathogens on the process of translocation of nutrients and water during an infection -

V. Briefly describe the terms given below:	
1. Test plants	
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2. Protectant fungicides	
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3. Polycyclic diseases	
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4. Host specific toxins	
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(4 x 4 marks)	

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