

THE OPEN UNIVERSITY OF SRI LANKA

B.Sc. DEGREE PROGRAMME

BOTANY- LEVEL 05

BOU3101/ BOE5101 – PLANT PATHOLOGY

ASSESSMENT TEST I (OPEN BOOK TEST)

DURATION: ONE (01) HOUR



Date: 30th April 2017

Time: 10.30-11.30 am

Registration No:

Answer **ALL** questions in the space provided.

I Give the most **appropriate term/ terms** for the following:

1. Symptoms characteristically causing rapid death of entire leaves including veins or parts of the leaf -
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2. Projections of hyphae into host cells which acts as an absorbing organ -
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3. The ability of a pathogen to cause disease -
.....

4. A pathogen which causes little or no disease after infecting it's host –
.....

5. Failure of plants or plant organs to develop fully due to the reduction in the size of plant cells -
.....

6. Part of a pathogen which is capable of initiating a new infection –
.....
7. Progressive increase in the incidence or occurrence of a particular disease within a definite population at a particular time –
.....
8. A plant which is infected with a virus and carries the virus but , does not show any symptom -
.....
9. Abiotic diseases caused by inanimate agents –
.....
10. When all growth stages of a cultivar exhibit resistance to a pathogen; often oligogenic -
.....
11. A fungicide which is taken in, and translocated within the plant –
.....
12. Control of import and export of plants to prevent spread of diseases and pests –
.....
13. The swollen tip of the hyphae or the germ tube –
.....
14. Symptom caused due to loss of turgor in plant tissues –
.....
15. A pathogen which obtains it's nutrients only from living host cells –
.....

16. A genus of plant pathogenic bacteria that has a gram- positive rod shaped structures

.....

17. A type of nematode that enters the host plant tissue and feed on these cells –

.....

18. The chain of events associated with the interactions among the pathogen, the host and the environment –

.....

19. Pleomorphic, prokaryotic microorganisms that lack a cell wall and cause yellows diseases in plants –

.....

20. Enzymes that break down cellulose –

.....

(20 x 2 marks)

II Differentiate between the following

1. Host specific toxins and host non- specific toxins

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2. Monocyclic diseases and polycyclic diseases

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3. Stylet-borne viruses and circulative viruses

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4. Endoparasitic development and ectoparasitic development

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5. Resistance and susceptibility

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6. Alternative host and alternate host

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(6 x 5 marks)

III. Give a brief account of the following :

1. The functions of the cork layer as an induced structural barrier

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2. Two mechanisms adopted by the fungal spores to get into the moving
current of air during the dispersal

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3. The **basic steps** involved in the process of fungal spores germination

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4. The two main functions carried out by cell wall degrading enzymes during disease development

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5. The effect of the pathogens on the process of plant photosynthesis during an infection

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(5 x 6 marks)

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