

(3)



THE OPEN UNIVERSITY OF SRI LANKA

B.Sc. DEGREE PROGRAMME

BOTANY- LEVEL 05

BYU5301/BYE5301 - PLANT PATHOLOGY

ASSESSMENT TEST II (NO BOOK TEST)

DURATION: ONE (01) HOUR

Date: 28<sup>th</sup> July 2018

Time: 4.00-5.00 pm

Registration No: .....

Answer ALL questions in the space provided.

1 .Name the disease of the plant caused by the following fungi:

- i. *Plasmopara viticola* on grapes - .....
- ii. *Oidium hevea* on rubber - .....
- iii *Alternaria solani* on potato - .....
- iv. *Fusarium oxysporum* on tomato - .....
- v. *Xylaria thwaitesii* on rubber - .....
- vi *Rigidoporus lignosus* on rubber - .....
- vii. *Exobasidium vexans* on tea - .....
- viii..*Corynespora cassicola* on rubber - .....
- ix. *Hamilea vastatrix* on coffee - .....
- x. *Pythium debaryanum* on chilli - .....

(4 x 10 marks)

2. Certain structures/events in the life cycle of fungi are described below. State **one (01) species or genus** of a fungus you have studied as an example which best fits each of these descriptions.

i. Barrel-shaped asexual spores in chains -

.....

ii. Conidia formed in asexual fruiting bodies known as sporodochia -

.....

iii. A genus of fungi forming sclerotia in its life cycle -

.....

iv. A vegetative body consisting of an amoeboid structure without a definite cell wall -

.....

v. A fungus with macro-conidia and micro-conidia in its life cycle -

.....

vi. Fusion of spermatia of one mating type with the receptive hyphae of the other mating type (spermatization) -

.....

vii. Coloured conidia with cross and longitudinal septa -

.....

(4 x 7 marks)

3. Give the **best two (02)** answers in response to the following:

i. **Two (02)** functions of uredospores of coffee rust disease -

(a) .....

(b) .....

ii. **Two (02)** functions of teliospores of wheat rust -

(a) .....

(b) .....

iii. Two (02) mechanisms by which white root disease of rubber spreads to a healthy tree -

- (a) .....
- (b) .....

iv. Two (02) spore types which are capable of spreading powdery mildew disease of roses caused by *Sphaerotheca pannosa* -

- (a) .....
- (b) .....

v. Two (02) characteristic features of the conidiospores of the genus *Colletotrichum* which causes anthracnose disease in plants -

- (a) .....
- (b) .....

vi. Two (02) economically important fungal diseases of potatoes -

- (a) .....
- (b) .....

vii. Two (02) phases during seed germination where damping-off of seedling may occur -

- (a) .....
- (b) .....

viii. Two (02) host plants in the life cycle of *Puccinia graminis* -

- (a) .....
- (b) .....

(4 x 8 marks)

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