



KERALA AGRICULTURAL UNIVERSITY
B.Sc.(Hons).Forestry 2016 Admission
IV Semester Final Examination-July 2018

Narm.2206

Forest Pathology (1+1)

Marks: 50
Time:2 hours

- 1 Fill up the blanks** **(10x1=10)**
- 1 Association of fungi with roots of higher plants is known as _____.
 - 2 The fungi which can grow and reproduce only in the presence of living host plant are known as _____.
 - 3 Exclusion of plant diseases by legislation is known as _____.
 - 4 Bamboo rust disease is disseminated through _____.
 - 5 The time lapse between the inoculation and spore production is known as _____.
 - 6 Chestnut blight caused by _____.
 - 7 _____ is a white rotting fungus of forest which is otherwise cultivated as edible mushroom.
 - 8 Witches' broom is a common symptom of diseases caused by _____.
 - 9 Endomycorrhiza belong to _____ order of the fungi.
 - 10 Sandal spike was reported for the first time from _____.

Write short notes/answers etc on ANY FIVE **(5x2=10)**

- 1 Sexual reproduction in fungi.
- 2 Plant quarantine in relation to forest disease management.
- 3 Integrated Disease Management
- 4 Economic importance of polypores.
- 5 General life cycle of rust fungi.
- 6 Importance of Dutch elm disease in the history of forest pathology.
- 7 Enlist important diseases of *Tectona grandis* along with their causal organisms

Answer any FIVE of the following. **(5x4=20)**

- 1 Discuss any two forest diseases of international importance which caused serious epidemics in the past.
- 2 What is a wood decay? How do we differentiate between white rot and brown rot in woods? Give two examples each of white and brown rot causing fungi.
- 3 Important contributions of Robert Hartig
- 4 Role of Mycorrhizae in Forestry
- 5 **Differentiate between the following:**
 - a)Rust and smut
 - b)Powdery and downy mildew

P.T.O

6 Define the following:

- a) Disease
- b) Hypertrophy
- c) Biotroph
- d) Wilt
- e) Pathogenesis
- f) Blight
- g) Pycnidium
- h) Ascocarp

7 Factors affecting the development of Epidemic

IV Write an essay on any ONE of the following

(1x10=10)

- 1 Discuss in detail the causes and mechanisms of wood / timber decay. Discuss the methods of its management
- 2 Discuss in detail the principles of forest disease menegement
