BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

DEPARTMENT: NATURAL RESOURCES

COURSE CODE NRF402: FOREST PATHOLOGY AND ENTOMOLOGY

DURATION: 2 HOURS

TOTAL MARKS: 70

INSTRUCTIONS TO CANDIDATES



Answer Three questions out of the following Five questions. You must answer question One from Section A and any Two questions from Section B.

SECTION A

1. With the aid of a diagram and examples, explain the importance of the disease triangle in determining disease incidence and virulence.

[30 Marks]

SECTION B

- 2. Compare the signs and symptoms of the following pathogens and pests on eucalypts:
 - a) Leptocybe invasa and Glycaspis brimblecombei.

[4 Marks]

b) Teratosphaeria gauchensis and Neofussicoccum eucalyptorum [16 Marks]

3. With the aid of relevant examples, explain factors which trigger the attack of trees by Botryosphaeriaceae.

[20 Marks]

4. Enemies of tree species track them from their native ranges to areas where they are domesticated. Discuss.

[20 Marks]

5. Design a pest management strategy for a *Eucalyptus* plantation exhibiting high infestation levels of Leptocybe invasa, Thaumastocoris peregrinus and Glycaspis brimblecombei and severe symptoms of Coniothyrium stem canker.

[20 Marks]

END OF PAPER