BOWEN UNIVERSITY IWO COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE MICROBIOLOGY PROGRAMME 2022/2023 FIRST SEMESTER EXAMINATION

MCB 313: MYCOLOGY

Instructions: Answer question ONE and any two others. Time: 2h 15 min 1 a. Briefly describe an experiment you would employ to isolate a named fungus from (10 marks) an infected mango (Mangifera indica). b. (i) List the precautions to be taken while carrying out the experiment in (a) above. (ii) Make distinctive diagrams of the following: Ascus containing ascospores • Holobasidia and phragmobasidia bearing basidiospores (10 marks) c. Mention the five major phyla of the kingdom of fungi, Give one specific example for each of the five major phyla (10marks) 2 a. Discuss any 4 unique characteristics of fungi (10 marks) b. In a tabular form, highlight major distinguishing characteristics of Phycomycetes? (10 marks) 3. Briefly comment on the following: a Coenocytic hyphae (5 marks) b Parasitic nutrition (5 marks) c Spore dispersal by water (5 marks) d Mycelial fragmentation (5 marks) a. Discuss the economic significance of the Zygomycetes group of fungi (10 marks) 4 b. List five general characteristics of slime moulds (10 marks) 5 a. Describe (i) the indirect development of ascus (ii) the economic importance of Aspergillus spp. (10 marks) b. Write short notes on the following: i) Trichogyne ii) Gamentagia iii) Basipetal iv) Dikaryon v) Cleistothecium (10 marks)