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DEPARTMENT OF MICROBIOLOGY
B.SC. MICROBIOLOGY 2017/2018 HARMATTAN SEMESTER EXAMINATION
MCB 305: MYCOLOGY

Time: 1hr. 45mins

INSTRUCTION: Answer any four questions

- 1a. Citing specific examples, highlight ten benefits of fungi.
- b. List any four constituents that a complete medium for the growth of fungi must have.
- c. What are the discrepancies between the old and new methods of classifying fungi?
- 2a. Highlight the distinguishing features of fungi in the phylum Basidiomycota. Provide appropriate diagrams to buttress your answer.
- b. Why are the Basidiomycetes referred to as the highest evolved fungi?
- 3a. Classify the following fungi:
- (i) *Mucor hiemalis*
 - (ii) *Allomyces macrogynus*
 - (iii) *Aspergillus niger*
 - (iv) *Saccharomyces cerevisiae*
- b. List five characteristics of fungi
- c. Explain the following terms:
- (i) Eucarpic
 - (ii) Gametangia copulation
 - (iii) Anisogamy
 - (v) Oogamy
- 4a. Write notes of significance on the following:
- (i) Mushrooms
 - (ii) Rusts
- b. With the use of annotated diagrams, describe the life cycle of either a named mushroom, or a named rust fungus.
- 5a. Highlight the main characteristic features of the family Tricholomataceae.
- b. List the orders under the class Chytridiomycetes.
- c. Draw the life cycle of *Mucor* sp.

Oligomy

Heterotrophy