

OBAFEMI AWOLOWO UNIVERSITY, ILE – IFE, NIGERIA.
FACULTY OF SCIENCE
DEPARTMENT OF MICROBIOLOGY

B.Sc. (Microbiology) Degree Examination.

SEMESTER: Rain 2010/2011 Session

Date: 7th December, 2011

COURSE CODE: MCB 304

Time allowed: 2% hours

COURSE TITLE: Environmental Microbiology

INSTRUCTION: Answer all questions

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- (1) In what ways does air pollution influence life and environment generally?
- 2(a) Write briefly on the practical methods of small scale sewage treatment.
(b) Discuss ONPG/MUG Test.
- 3(a) Mention the various factors that determine the microbial population in water
(b) What are the various factors affecting the microorganisms in stored water?
(c) Mention the major source of organic matter in the marine system
(d) Mention the group of bacteria that are associated with hot springs and deep marine environment
(e) Mention the various means of detecting coliforms in water
- 4(a) Classify bacteria on the basis of pressure requirement in the marine environment
(b) Giving specific examples, mention the various groups of bacteria that are prominently found in water
(c) What is bulking?
- 5(a) Discuss the consequences of water pollution by nutrient enrichment.
(b) Fill in the gap
(i) In advanced sewage treatment, ammonia is removed by _____ which liberates _____ from _____
(ii) Nitrates can be removed by exploiting the activities of _____ which oxidize _____ such as _____ during _____, ultimately reducing them to forms which can be easily removed.
(iii) Phosphates can be removed using _____ that combine with _____ causing them to _____
(iv) The potability of water may be ascertained by the _____

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