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DEPARTMENT OF MICROBIOLOGY

2018/2019 HARMATTAN SEMESTER EXAMINATION

MCB 405: PRINCIPLES OF EPIDEMIOLOGY AND PUBLIC HEALTH

TIME: 2HR

INSTRUCTION: Answer question ONE (1) and any other one in section A and

Answer any ONE (1) question in section B

Date: 29/04/2019

SECTION A

1. (a) What is Epidemiology?
(b) Epidemiological investigation is complex in nature and follows a systematic procedure EXPLAIN
(c) Differentiate between Health and Disease
2. (a) What are nosocomial infections
(b) List and briefly explain the factors influencing the epidemiology of disease
(c) Write concisely on five (5) public health measures for the control of disease
3. (a) Define the following term
(i) Prevalence (ii) Incidence (iii) Pandemic (iv) Epidemic (v) Sporadic
(b) In a population of 3,400, a total of 480 people came down with cholera. Calculate the prevalent rate of the disease
(c) The causes of an epidemic are complex and involve more than one factors EXPLAIN

SECTION B

4. (a) Mention different types of vaccines giving two examples in each case
(b) Describe the two bacterial preparations used in bacterial vaccines
(c) How can you reduce/eliminate the virulence of viruses used in vaccine production?
5. (a) List seven uses of adjuvants and give four examples of adjuvants.
(b) Differentiate between toxoids produced from alum and aluminium phosphate