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DEPARTMENT OF MICROBIOLOGY

2013/2014 HARMATTAN SEMESTER EXAMINATION

MCB 311: PATHOGENIC BACTERIOLOGY



INSTRUCTION: Answer any THREE questions

TIME: 1 hr 45 mins

1. Describe the roles of the following in bacterial virulence:
  - i) Adherence factors
  - ii) Invasion of host cell and tissues
  - iii) Enzymes
- 2a. Compare the Koch's postulate and molecular Koch's postulate as guidelines for establishing the causes of infectious diseases.
- b. Describe the roles of resident flora in disease production
3. Write on the following:
  - i) Pathogenicity islands (PAIs)
  - ii) Mobile genetic elements
  - iii) The clonal nature of bacterial pathogens
4. Describe the roles of the following in transmission of diseases:
  - i) Reservoirs
  - ii) Portal of exit
  - iii) Vehicles
  - iv) Portal of entry