



OLABISI ONABANJO UNIVERSITY

P.M.B. 2002, AGO IWOYE, OGUN STATE, NIGERIA

DEPARTMENT OF MICROBIOLOGY

2014/2015 HARMATTAN SEMESTER EXAMINATION

MCB 311: PATHOGENIC BACTERIOLOGY

INSTRUCTION: Answer question one and any other two questions

TIME: 1 hr 45 mins

1. Write concisely on the following pathogenic properties of bacteria

- ☒ i) Plasmids
- ☒ ii) Capsules
- ☒ iii) Flagella
- ☒ iv) Pyrogenicity

2. Describe the roles of the following in hosts' resistance to infections

- ☒ i) The Innate Immunity
- ☒ ii) Tumour Necrosis Factors (TNFs)
- ☒ iii) Bacteriocins

3. Discuss the determinants of infectious diseases in relation to

- ☒ i) Transmissibility of the pathogen
- ☒ ii) Attachment and colonization by pathogens
- ☒ iii) Invasion of the pathogens

4a. "Proper specimen collection is critical in accurate diagnosis of bacterial infections."
Comment.

b. Mention 5 each of specimens normally sterile and those from sites with a normal flora.

c. Why is swab not an effective specimen collection device and how can you overcome its limitation?

d. Differentiate between selective and differential media giving two examples each.