

He's copy

me's copy

08066647035
08070585529

Phylogeny
Pseudomonas



OLABISI ONABANJO UNIVERSITY, AGO-IWOYE

DEPARTMENT OF MICROBIOLOGY

HARMATTAN SEMESTER EXAMINATION 2012/2013 SESSION

MCB 311: PATHOGENIC BACTERIOLOGY

INSTRUCTION: Answer **FOUR** questions in all, **TWO** questions from each section.

TIME ALLOWED: 2 hours.

SECTION A.

*1 Briefly explain the following:

- a. Control of infectious diseases.
- b. Non-infectious diseases.
- c. Congenital and genetic diseases
- d. Nutritional deficiency diseases

*2a. What are virulence factors?

b. State five virulence factors each of *Staphylococcus aureus* & *Streptococcus* spp.

3. Briefly explain the following terms:

- a. Bacteremia b. Septicemia c. Toxicemic infections d. Contagious diseases

e. Pathogenesis is the ability of a bug to infect the host and produce disease resulting from interaction of pathogen with host for expression of certain factors

SECTION B.

4. Describe two tests each (i) for specific breakdown products and (ii) for production of enzymes, used in the identification of bacteria.

5. How would you differentiate the following pairs of bacteria:

- i) *Bacillus subtilis* & *E. coli* ii) *Staph. aureus* & *Strept. pyogenes* iii) *Salmonella* & *Shigella*
- iv) *E. coli* & *Klebsiella oxytoca* and v) *Bacillus cereus* & *Clostridium botulinum*

*6. You are given a sputum sample of a patient suspected to have died of tuberculosis

(a). Name 4 media to isolate the causal agent. (b). How would you identify the causal agent?

(c). Enumerate 4 biochemical differences between *Mycobacterium bovis* & *M. tuberculosis*

4 @ Test for specific breakdown products
1 @ Mr (Methyl red test) is use to detect the production of sufficient acid during glucose fermentation so the medium falls and it is maintain below +5.
2 @ some bacteria oxidize glucose
3 @ some bacteria ferment glucose
4 @ some bacteria produce gas
5 @ some bacteria produce heat
6 @ some bacteria produce light
7 @ some bacteria produce sound
8 @ some bacteria produce color
9 @ some bacteria produce odor
10 @ some bacteria produce taste
11 @ some bacteria produce touch
12 @ some bacteria produce smell
13 @ some bacteria produce sight
14 @ some bacteria produce hearing
15 @ some bacteria produce feeling
16 @ some bacteria produce thought
17 @ some bacteria produce emotion
18 @ some bacteria produce intellect
19 @ some bacteria produce spirit
20 @ some bacteria produce soul
21 @ some bacteria produce body
22 @ some bacteria produce mind
23 @ some bacteria produce heart
24 @ some bacteria produce liver
25 @ some bacteria produce lungs
26 @ some bacteria produce stomach
27 @ some bacteria produce intestines
28 @ some bacteria produce bladder
29 @ some bacteria produce rectum
30 @ some bacteria produce anus
31 @ some bacteria produce vagina
32 @ some bacteria produce penis
33 @ some bacteria produce testis
34 @ some bacteria produce ovary
35 @ some bacteria produce uterus
36 @ some bacteria produce fallopian tube
37 @ some bacteria produce cervix
38 @ some bacteria produce vagina
39 @ some bacteria produce penis
40 @ some bacteria produce testis
41 @ some bacteria produce ovary
42 @ some bacteria produce uterus
43 @ some bacteria produce fallopian tube
44 @ some bacteria produce cervix
45 @ some bacteria produce vagina
46 @ some bacteria produce penis
47 @ some bacteria produce testis
48 @ some bacteria produce ovary
49 @ some bacteria produce uterus
50 @ some bacteria produce fallopian tube
51 @ some bacteria produce cervix
52 @ some bacteria produce vagina
53 @ some bacteria produce penis
54 @ some bacteria produce testis
55 @ some bacteria produce ovary
56 @ some bacteria produce uterus
57 @ some bacteria produce fallopian tube
58 @ some bacteria produce cervix
59 @ some bacteria produce vagina
60 @ some bacteria produce penis
61 @ some bacteria produce testis
62 @ some bacteria produce ovary
63 @ some bacteria produce uterus
64 @ some bacteria produce fallopian tube
65 @ some bacteria produce cervix
66 @ some bacteria produce vagina
67 @ some bacteria produce penis
68 @ some bacteria produce testis
69 @ some bacteria produce ovary
70 @ some bacteria produce uterus
71 @ some bacteria produce fallopian tube
72 @ some bacteria produce cervix
73 @ some bacteria produce vagina
74 @ some bacteria produce penis
75 @ some bacteria produce testis
76 @ some bacteria produce ovary
77 @ some bacteria produce uterus
78 @ some bacteria produce fallopian tube
79 @ some bacteria produce cervix
80 @ some bacteria produce vagina
81 @ some bacteria produce penis
82 @ some bacteria produce testis
83 @ some bacteria produce ovary
84 @ some bacteria produce uterus
85 @ some bacteria produce fallopian tube
86 @ some bacteria produce cervix
87 @ some bacteria produce vagina
88 @ some bacteria produce penis
89 @ some bacteria produce testis
90 @ some bacteria produce ovary
91 @ some bacteria produce uterus
92 @ some bacteria produce fallopian tube
93 @ some bacteria produce cervix
94 @ some bacteria produce vagina
95 @ some bacteria produce penis
96 @ some bacteria produce testis
97 @ some bacteria produce ovary
98 @ some bacteria produce uterus
99 @ some bacteria produce fallopian tube
100 @ some bacteria produce cervix