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UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES SECOND YEAR FIRST SEMESTER EXAMINATION IN BSC HONS (MLS)-2020 MLSMB 2133 MEDICAL BACTERIOLOGY PAPER II

Date:22.06.2022 Time: 2 Hours

ANSWER ALL SIX QUESTIONS.

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1.	
1.1 List five virulence factors of Streptococcus pyogenes which contribute to t	he
pathogenesis of the infection	(10 Marks)
1.2 Briefly describe the possible complications caused by Streptococcus pyoge	enes
infection	(60 Marks)
1.3 Describe a laboratory test used to differentiate the Staphylococcus spp	
from Streptococcus spp.	(30 Marks)
2.	
2.1 Explain the underlying principle of each biochemical test mentioned	
below and give two bacteria which give positive reaction	
2.1.1 Urease test	(20 Marks)
2.1.2 Citrate test	(20 Marks)
2.1.3 Indole test	(20 Marks)
2.2. Name five culture media used for bacterial culture and mention	
their uses.	(40 Marks)
3.	
3.1 Name two gram negative bacteria which cause human infections.	(10 Marks)
3.2 List the infections caused by the bacteria you mentioned in 3.1.	(35 Marks)
3.3 Name the bacteria which cause tuberculosis	(05 Marks)
3.4 Briefly describe two microbiological tests which are commonly used to	
diagnose tuberculosis.	(50 Marks)

4. Write short notes on	
4.1 Infections caused by Chlamydia trachomatis	(40 Marks
4.2 Scrub typhus	(30 Marks
4.3 Haemophilus influenzae	(30 Marks
5.	
5.1 Name three anaerobic bacteria and mention the infections caused by each.	(30 Marks
5.2 Briefly describe the mode of transmission of each of the bacteria	
mentioned in 5.1	(30 Marks)
.5.3 Name the aetiological agent of typhoid fever	(05 Marks)
5.4 List four specimen used to diagnose typhoid fever.	(10 Marks)
5.5 Briefly describe on the preventive measures for typhoid fever	(25 Marks)
6.	
6.1 Describe two different disk diffusion methods carryout in antibiotic	
susceptibility testing in routine microbiology laboratories.	(60 Marks)
6.2 Briefly write on MIC method (Minimum Inhibitory Concentration) for	(oo marks)
antimicrobial activity	(40 Marks)
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