

KL 2815

Second Year MBBS Examination

II MBBS Microbiology Paper 1

Time: 2 hours Date: 07-02-2017 Max Marks: 40

Instructions:

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

Section 1

1. MCQ (8)

- a. Which is post streptococcal sequelae A. Acute rheumatic fever B. Cellulitis C. Pharyngitis D. Impetigo
- b. Which of the following mycobacteria produces Buruli ulcer A. M. kansasii B. M. tuberculosis C. M. ulcerans D. M. marinum
- c. Cuneiform arrangement is characteristic of:
~~A. staphylococcus B. Streptococcus~~

C. *Corynebacterium diphtheri* D. *Bacillus anthracis*

- d. Bacterial structure involved in respiration is: A. Ribosome B. Mesosome C. Pili D. Flagella
- e. All of the following are oxidase negative bacteria except A. *Escherichia coli* B. *Pseudomonas* C. *Klebsiella* D. *Proteus*
- f. Endotoxin acts by: A. Classical pathway B. Lectin pathway C. Alternative pathway D. None
- g. A positive tuberculin test is an example of: A. Type I hypersensitivity B. Type II hypersensitivity C. Type III hypersensitivity D. Type IV hypersensitivity

Section 2

2. Write any one (10)

- a. A 8-year old boy was presented in emergency department with the 8 days history of pharyngitis, low grade fever, malaise, suddenly he developed difficulty in breathing and swallowing. On his physical examination, pseudo membrane covering the tonsils was observed. Swab were collected from the edge of pseudo membrane and send to

microbiology laboratory, showing many pleomorphic gram positive bacilli, Pertaining to history, which is most probable pathogen?

Write its pathogenicity and lab diagnosis.

- b. A 50 year old man presented with a history of low grade fever and productive cough for last 2 months. His history revealed loss of appetite and weight loss of 5 kg over last 12 months. In the chest X-rays, a nodular infiltrate was seen in right upper lobe. Which is the most probable pathogen? Discuss its pathogenicity and laboratory diagnosis in detail.

3. Write short answers on: (any two) (6)

- a. Bacterial Spore.
b. Diagram of structure of IgM molecule.

4. Write short notes on: (any two) (10)

- a. Discuss the laboratory diagnosis of rickettsial diseases
b. Mechanism and applications of precipitation reaction
c. Fractional Sterilization.

5. Write short answers on: (any two) (6)

- a. Super antigen.
- b. Methods of Anaerobiosis.
- c. Enriched and Enrichment Media.

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