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MBBS 2nd Professional Examination 2003

Time 03 hrs.

M.M 40.

MICROBIOLOGY

PAPER - I

Note: Attempt all questions. Draw labeled diagrams wherever necessary.

Q.1. Describe the life cycle and laboratory diagnosis of disease caused by *Echinococcus granulosus*. (7)

Q.2. Write briefly about: (3x2)

- a) Occult filariasis
- b) Sterilization by moist heat. ✓

Q.3. Name the various classes of immunoglobulins and describe the structure and functions of IgM. ✓ (7)

Q.4. Write short notes on: (3x2)

- a) Bacterial growth curve ✓
- b) Enrichment medium ✓

Q.5. a) Describe the byproducts of complement activation and their action.

b) ✓ Diagnosis of malaria by peripheral blood film. (4x2)

Q.6. Write short notes on: (3x2)

- a) Enzyme immuno sorbent assay test (ELISA test)
- b) Koch's postulates.

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M.B.B.S. 2nd Professional Examination-2003.

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Max. Marks 40.

MICROBIOLOGY

PAPER - II

Attempt all questions.

Classify Spirochetes. Enumerate serological tests of Syphilis and discuss merits and demerits of each test. (8)

Write in brief:

- 1) ✓ Causative agents of Hepatitis and briefly discuss the serological diagnosis of Hepatitis B Virus. (6)
- 2) ✓ Describe in brief the laboratory diagnosis of Mycobacterium tuberculosis. (6)

Write short notes on:

- 1) Rabies Vaccine (4)
- 2) Hospital acquired infection (3)
- 3) Candidiasis (3)

MICROBIOLOGY

Enrollment No. _____ Date _____

Please tick the most appropriate choice. Each carry 1 mark.

Father of Bacteriology is:

- a. Robert Koch, b. Louis Pasteur, c. Antony Van Leewenhooek
d. Iwonowsky

Techniques of sterilization were introduced by:

- a. Robert Koch, b. Louis Pasteur, c. Ferdinand Cohn
d. John Neethan

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II Prof 2003

- 3) **All are motile Bacterial except:**
 - a. E-coli b. Shigella, c. Salmonella, d. Vibrio
- 4) **Capsule producing microorganisms is/are:**
 - a. Cryptococcus neoformans
 - b. Streptococcus pneumoniae
 - c. Klebsiella pneumoniae
 - d. All of the above
 - e. None of the above
- 5) **Mac conkey medium is:**
 - a. Transport media
 - b. Enriched media
 - c. Differential media
 - d. Enrichment media
 - e. Basal media
- 6) **Most abundant class of immunoglobulin in body is:**
 - a. IgG, b. IgM, c. IgA, d. IgE, e. IgD.
- 7) **Clinical infection leads to:**
 - a. Active natural immunity
 - b. Active artificial immunity
 - c. Passive natural immunity
 - d. Passive artificial immunity
- 8) **Slide agglutination reaction is useful for the identification of cultures of:**
 - a. Salmonella, b. Shigella, c. Vbrio Cholerae, d. All of the above
 - e. None of the above
- 9) **Fluorescent treponemal antibody test is example of:**
 - a. Direct immunofluorescence
 - b. Indirect immunofluorescence
 - c. Both of the above
 - d. None of the above
- 10) **ELISA kits are available commercially for:**
 - a. Anti HIV
 - b. Hepatitis B surface antigen
 - c. Rota Virus
 - d. All of above