Reg. No.

# MANIPAL ACADEMY OF HIGHER EDUCATION

# SECOND MBBS DEGREE EXAMINATION - MAY 2018 M.M.C. LIBRA

SUBJECT: MICROBIOLOGY - PAPER I (ESSAY)

Monday, May 07, 2018

Time: 10:20 - 13:00 Hrs.

Maximum Marks: 80

## Amswer ALL the questions.

Define sterilization. Write briefly the principle, function, uses and quality control measures 1. for autoclave.

(2-2+2+2+2 = 10 marks)

- A 12 year old boy is admitted with fever and swollen, red, tender knee. elbow and ankle 2. joints. The joint pain migrates from one joint to another. He had a history of acute pharyngitis 2 weeks back.
- 2A. What is the probable diagnosis? Which organism is usually responsible for this complication?
- 2B. What is the pathogenesis of this condition?
- 2C. How do you confirm your diagnosis in the laboratory?
- Write briefly about the prophylaxis for this condition.

(2+3+3-2 = 10 marks)

#### Write short notes on: 3.

- 3A. Gram negative bacterial cell wall
- 3B. Blood culture
- 3C. Transduction
- 3D. Killed bacterial vaccines use with example
- 3E. IgM structure and function
- 3F. Uses of HLA typing
- 3G. Type II Hypersensitivity mechanism with example
- 3H. Malignant pustule
- Non-gonococcal urethritis 3I.
- Laboratory diagnosis of gas gangrene 3J.
- 3K. ETEC pathogenesis and laboratory diagnosis
- Atypical mycobacteria classification with example
- 3M. Causative agent and laboratory diagnosis of Weil's disease
- 3N. Standard tests for syphilis merits and demerits
- 30. Scrub typhus brief description and laboratory diagnosis

 $(4 \text{ marks} \times 15 = 60 \text{ marks})$ 



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## MANIPAL ACADEMY OF HIGHER EDUCATION

## SECOND MBBS DEGREE EXAMINATION - MAY 2018 M.C.

SUBJECT: MICROBIOLOGY - PAPER II (ESSAY)

Tuesday, May 08, 2018

Time: 10:20 - 13:00 Hrs.

Maximum Marks: 80

Answer ALL the questions.

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Explain the life cycle, pathogenicity and laboratory diagnosis of Leishmania donovani.

(3+3+4 = 10 marks)

A thirty five year old man presented to the medicine OPD with history of loss of appetite and vomiting, anorexia and lethargy since two weeks. Upper abdominal pain was present since two days. On physical examination he had jaundice. He gives history of intravenous drug abuse. His liver enzymes were elevated and he tests positive for HBsAg.

- 2A. What is the likely diagnosis?
- 2B. What are the various serological markers used in the diagnosis of this disease and what is the significance of each?
- 2C. What are the modes of transmission?
- 2D. Describe immunoprophylaxis.

(1+5+2+2=10 marks)

### 3. Write short notes on:

- 3A. Hepatic amoebiasis
- 38. Trichomonas vaginalis
- 39. Name four parasitic infections of zoonotic origin
- 3D. Laboratory diagnosis of Cryptococcal meningitis
- 3E. Kyasanur Forest Disease
- 3F. NIH swab
- 3G. MMR vaccine
- TH. Draw and label the diagram of human immunodeficiency virus
  - 3I. Mycotoxins
  - 3J. Bronchopulmonary aspergillosis
- كلا. Define antigenic shift and Antigenic drift
  - 3. Life cycle of Diphyllobothrium latum
  - 3M. Chromoblastomycosis
  - 3X. Microfilaria
  - 30. Inclusion bodies

 $(4 \text{ marks} \times 15 = 60 \text{ marks})$