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MD (MICROBIOLOGY) DEGREE EXAMINATION – OCTOBER 2015

SUBJECT: PAPER I: GENERAL MICROBIOLOGY AND IMMUNOLOGY

Tuesday, October 06, 2015

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL questions.
- ∠ Long Essays:
- 1. Define and classify sterilization. Describe in detail sterilization by moist heat.

(15 marks)

2. Define and classify hypersensitivity. Discuss in detail type IV hypersensitivity.

(15 marks)

- 3. Write short notes on:
- 3A. Quality control for antibiotic sensitivity testing
- 3B. Bacterial spore and its applications
- 3C. Endotoxins and their significance
- 3D. Conjugation in bacteria and its significance
- 3E. Anaerobic culture methods
- 3F. Fluorescence microscopy- principle and applications
- 3G. Clinical applications of cytokines
- 3H. Role of complement in health and in disease
- 3I. Heterophile agglutination tests
- 3J. Ligase chain reaction

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

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MD (MICROBIOLOGY) DEGREE EXAMINATION – OCTOBER 2015

SUBJECT: PAPER II: BACTERIOLOGY AND MYCOLOGY

Wednesday, October 07, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

∠ Long Essays:

1. A 40 years old patient with fever, jaundice and renal failure of one week duration admitted during monsoon season. Write briefly about the samples collected in this condition and the processing of the samples in the laboratory.

(15 marks)

2. Describe the non-culture methods for fungal diagnosis.

(15 marks)

- 3. Write short notes on:
- 3A. Re-emergence of Pertussis
- 3B. Neonatal meningitis
- 3C. Cat Scratch Disease
- 3D. Sample collection and processing in Oculomycosis
- 3E. Mycotoxins
- 3F. Bacterial exanthematous fever
- 3G. Sporotrichosis
- 3H. Laboratory diagnosis of H. pylori infection
- 3I. Legionnaires disease
- 3J. Fungal sinusitis

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$



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MD (MICROBIOLOGY) DEGREE EXAMINATION – OCTOBER 2015

SUBJECT: PAPER III: VIROLOGY AND PARASITOLOGY

Thursday, October 08, 2015

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Answer ALL questions.

∠ Long Essays:

1. Describe the pathogenesis and laboratory diagnosis of Hepatitis B. Write a note on occult Hepatitis B.

(15 marks)

2. Enumerate the parasites affecting CNS. Describe in details the pathogenesis, life cycle and laboratory diagnosis of Granulomatous Meningoencephalitis.

(15 marks)

- 3. Write short notes on:
- 3A. Shell vial culture
- 3B. Virus infections in post-transplant patients
- 3C. Robo Viruses
- 3D. Xenodiagnosis for parasites
- 3E. Cultiviable parasites
- 3F. Collection and Transportation of specimens for viral culture
- 3G. PKDL
- 3H. Fifth disease
- 3I. Egg counting technique from stool specimen
- 3J. Babesiosis

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

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MD (MICROBIOLOGY) DEGREE EXAMINATION – OCTOBER 2015

SUBJECT: PAPER IV: APPLIED MICROBIOLOGY & RECENT ADVANCES

Friday, October 09, 2015

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essays:
- 1. Describe the production and role of monoclonal antibodies in health industry.

(15 marks)

2. Discuss the recent advances in the laboratory diagnosis of Tuberculosis.

(15 marks)

- 3. Write short notes on:
- 3A. Cytokines
- 3B. Legionella pneumophila
- 3C. CA-MRSA
- 3D. Listeria monocytogenes
- 3E. Universal precautions against blood borne viral infections
- 3F. Antiviral agents
- 3G. Rhinosporidiosis
- 3H. Role of microscopy in diagnosis of fungal infections
- 3I. Interferons
- 3J. Accreditation of Clinical Laboratory

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

