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MD (MICROBIOLOGY) DEGREE EXAMINATION – OCTOBER 2017 SUBJECT: PAPER I: GENERAL MICROBIOLOGY AND IMMUNOLOGY

Tuesday, October 03, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Answer ALL questions.

∠ Long Essays:

1. Discuss the principle, methodology of antibiotic sensitivity testing. Add a note on Quality control in Antibiotic sensitivity testing.

(15 marks)

2. Describe the structure of immunoglobulin and compare the properties of different class of Immunoglobulins.

(15 marks)

3. Write short notes on:

- 3A. Filamentous appendages of bacteria
- 3B. Autoclave
- 3C. Immune surveillance to malignancy
- 3D. Ligase chain reaction
- 3E. Mechanisms of Autoimmunity
- 3F. Carriers
- 3G. Genotypic and phenotypic variations
- 3H. Role of T cells in immune response
- 3I. Preservation of cultures
- 3J. Complement deficiency disorders

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MD (MICROBIOLOGY) DEGREE EXAMINATION – OCTOBER 2017

SUBJECT: PAPER II: BACTERIOLOGY AND MYCOLOGY

Wednesday, October 04, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essays:
- 1. Discuss the virulence factors and infections caused by *Staphylococcus aureus*. Add a note on drug resistance of *Staphylococcus aureus*.

(15 marks)

2. Enumerate the etiological agents of Pharyngitis. Discuss the pathogenesis and Laboratory Diagnosis of Diphtheria.

(15 marks)

- 3. Write short notes on:
- 3A. Classification of fungi
- 3B. Laboratory diagnosis of anaerobic infections
- 3C. Zygomycosis
- 3D. Chromoblastomycosis
- 3E. Prevention and control of enteric fever
- 3F. Laboratory diagnosis of Dermatophytes
- 3G. Mycoplasma pneumoniae
- 3H. VDRL test
- 3I. Halophilic vibrios
- 3J. Penicillium marneffei

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MD (MICROBIOLOGY) DEGREE EXAMINATION – OCTOBER 2017 SUBJECT: PAPER III: VIROLOGY AND PARASITOLOGY

Thursday, October 05, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL questions.
- ∠ Long Essays:
- 1. Classify Herpersviruses. Discuss the pathogenesis, laboratory diagnosis and prophylaxis of infections caused by Herpes simplex virus.

(15 marks)

2. Describe the life cycle, pathogenesis and laboratory diagnosis of visceral leishmaniasis.

(15 marks)

- 3. Write short notes on:
- 3A. Inclusion bodies
- 3B. Phage typing
- 3C. Briefly discuss the present global status of small pox
- 3D. Antigenic varations in influenza virus and their significance
- 3E. Strategies of HIV testing
- 3F. MMR vaccine
- 3G. Cysticercus cellulosae
- 3H. Larva migrans
- 3I. Microfilaria
- 3J. Extraintestinal amoebiasis

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MD (MICROBIOLOGY) DEGREE EXAMINATION – OCTOBER 2017 SUBJECT: PAPER IV: APPLIED MICROBIOLOGY & RECENT ADVANCES

Friday, October 06, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Z Draw diagrams wherever necessary.
- Z Long Essays:
- 1. Define and classify transplantation. Describe the immunological mechanisms of graft rejection.

(15 marks)

2. Discuss quality assurance in Microbiology laboratory.

(15 marks)

- 3. Write short notes on:
- 3A. Immunodiagnosis of parasitic diseases
- 3B. Burkholderia pseudomallei
- 3C. Rhinisporidiosis
- 3D. Cryptosporidium parvum
- 3E. Malarial vaccines
- 3F. Drug Resistance in Tuberculosis
- 3G. Coagulase negative Staphylococcus
- 3H. Atypical Mycobacteria
- 3I. Hepatitis C virus
- 3J. Pneumocystis jerovecii