[KT 540]

AUGUST 2008

Sub. Code : 4061

Maximum: 100 Marks

SECOND M.B.B.S. DEGREE EXAMINATION Revised (Non-Semester) Regulations Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY Q. P. Code : 524061

Time : Three hours

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :

- 1. Define and classify sterilization. Write about sterilization by moist heat.
- 2. Mention the bacterial agents causing meningitis. Discuss the pathogenesis and laboratory diagnosis of acute pyogenic meningitis caused by any one of them.

II. Write Short notes on :

- 1. Atypical mycobacteria.
- 2. Tests for toxin production of coryne bacterium diphtheria.
- 3. Bacterial Virulence.
- 4. Gonorrhoea.
- 5. Immunoglobulin G.
- 6. Biological functions of complement.
- 7. Bacterial Capsule.
- 8. Widal test.
- 9. Type III Hypersensitivity.

10. Non suppurative complications of streptococci.

III. Short Answer Questions :

- 1. Name four pigments produced Bacteria.
- 2. Diagram of Immunoglobulin M.
- 3. Give four examples of enriched media.
- 4. Name two zoonotic bacterial diseases.
- 5. Tube coagulase test.
- 6. Name four specific serologic tests for syphilis.
- 7. Four differences between exotoxin and endotoxin.
- 8. Two liquid media to grow Mycobacteria.
- 9. Sattelitism.
- 10. Urease test.

(10 x 2 = 20)

 $(2 \times 15 = 30)$

 $(10 \times 5 = 50)$

[KU 540]

FEBRUARY 2009

Sub. Code : 4061

SECOND M.B.B.S. DEGREE EXAMINATION Revised (Non-Semester) Regulations Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY O. P. Code : 524061

Q. P. Code : 524061	
Time : Three hours	Maximum: 100 Marks
Answer ALL questions.	
Draw Suitable diagrams wherever necessar	•
I. Essay Questions :	$(2 \ge 15 = 30)$
1. Describe the morphology of the bacterial cell with the help of and mention the function of various appendages.	a neat diagram
Name the bacteria causing sexually transmitted disease. Discuss the laboratory diagnosis of syphilis.	
II. Write Short notes on :	(10 x 5 = 50)
1. Hot air oven.	
2. Nocardia.	
3. Non-sporing Anaerobic infection.	
4. Passive immunity.	
5. Mycoplasma (lab diagnosis).	
6. Louis pasteur.	
7. Active immunity.	
8. E1 – Tor vibrios.	
9. Graft versus host reactions	
10. Helicobacter pylori.	
III. Short Answer Questions :	(10 x 2 = 20)
1. Negative staining.	
2. Give two examples for transport media.	
3. Arthus phenomenon.	
4. Nagler's reaction.	
5. Cold sterilization.	

- 6. Two uses of HLA Typing.
- 7. Oxidase test.
- 8. Name the three special species of Brucella.
- 9. Mantoux test.
- 10. X and V factors.

[KV 540]

SECOND M.B.B.S. DEGREE EXAMINATION Revised (Non-Semester) Regulations Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY Q. P. Code : 524061

<i>Q. P. Code : 524061</i> Time : Three hours	Maximum: 100 Marks
Answer ALL questions.	
Draw Suitable diagrams wherever necessar I. Essay Questions :	$(2 \times 15 = 30)$
 Define and classify sterilization. Write in detail about chemical methods of sterilization. 	
2. Name the bacterial agents causing pyrexia of unknown origin. Write the pathogenesis and lab diagnosis of enteric fever.	
II. Write Short notes on : 1. Flagella.	(10 x 5 = 50)
2. Transduction.	
3. Acquired immunity.	
4. Monoclonal antibodies.	
5. Coagulase test.	
6. Elek's gel precipitation test.	
7. VDRL test.	
8. Autoclave.	
9. Lepromin test.	
10. Weil felix test.	
III. Short Answer Questions :	(10 x 2 = 20)
1. Pasteurisation.	
2. Koch's postulates.	
3. Name four selective media.	
4. Plasmids.	
5. Name four mechanisms of auto immunity.	
6. Neufeld quelling phenomenon.	
7. M ¹ fadyean's reaction.	
8. Name four clostridia causing gas gangrene.	
9. Stalactite growth.	
10. Runyons classification of atypical mycobacteria.	

[KW 540]

FEBRUARY 2010

Sub. Code : 4061

SECOND M.B.B.S. DEGREE EXAMINATION **Revised (Non-Semester) Regulations** Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY Q. P. Code : 524061

Q. 1. Coue . 524001	
Time : Three hours	Maximum: 100 Marks
Answer ALL questions.	
Draw Suitable diagrams wherever necessar	ry
I. Essay Questions :	$(2 \times 15 = 30)$
 Define and classify hypersensitivity reactions. Describe type I hypersensitivity. 	
2. Describe the pathogenesis, laboratory diagnosis and prophyla:	xis of cholera.
II. Write Short notes on :	(10 x 5 = 50)
1. Halophilic vibrio.	
2. Bacterial capsule.	
3. Hot air oven.	
4. Conjugation.	
5. Malignant pustule.	
6. IgE.	
7. Adjuvant.	

- 8. Bacterial growth curve.
- 9. Tric agent.
- 10. Widal test.

III. Short Answer Questions :

- 1. Satellitism.
- 2. Milk ring test.
- 3. Enriched media.
- 4. Nagler's reaction.
- 5. Classification of atypical mycobacteria.
- 6. Hapten.
- 7. Name four methods of dry heat sterilization.
- 8. Name three anaerobic media.
- 9. Mention three properties of exotoxin.
- 10. Four organisms causing nosocomial infection.

 $(10 \ge 2 = 20)$

[KX 540]

AUGUST 2010

Sub. Code : 4061

SECOND M.B.B.S. DEGREE EXAMINATION Revised (Non-Semester) Regulations Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY Q. P. Code : 524061

Time : Three hours	Aaximum: 100 Marks
Answer ALL questions.	
Draw Suitable diagrams wherever necessary	
I. Essay Questions :	$(2 \ge 15 = 30)$
 Define and classify Antigen Antibody reactions. Discuss Agglutination tests with clinical examples. 	
 Enumerate sexually transmitted bacteria. Discuss Pathogenesis and laboratory diagnosis of Syphilis. 	
II. Write Short notes on :	(10 x 5 = 50)
1. Capsule.	
2. T cells and B cells.	
3. Mutation.	
4. Extra chromosomal genetic elements.	
5. Mechanism of Autoimmunity.	
6. Nosocomal infections.	
7. Type IV Hypersensitivity.	
8. Laboratory diagnosis of pulmonary tuberculosis.	
9. Toxigenicity tests for coryne bacterium diphtheria.	
10. Differences between Alpha haemolytic streptococci and pneum	ococci.
III. Short Answer Questions :	(10 x 2 = 20)
1. Name four bacteria causing food poison.	
2. Inspissation.	

- 3. Super Antigens.
- 4. Name four Anaerobic methods of cultivation.
- 5. C Reactive protein.
- 6. Hot Air Oven.
- 7. Sterilization of operation theatre.
- 8. Graft versus host reaction.
- 9. Name four live bacterial vaccines.
- 10. Uses of Gram stain.

[KY 540]

FEBRUARY 2011

Sub. Code : 4061

SECOND M.B.B.S. DEGREE EXAMINATION Revised (Non-Semester) Regulations Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY Q. P. Code : 524061

Time : Three hours	Maximum: 100 Marks
Answer ALL questions.	
Draw Suitable diagrams wherever necessary	y
I. Essay Questions :	$(2 \ge 15 = 30)$
1. Define sterilization and disinfection. Discuss the methods of sterilization by moist heat with suitable	e examples.
 Enumerate the bacteria causing diarrhoea. Discuss the morphology, cultural characteristics, pathogenecity diagnosis of Vibrio cholera. 	y and laboratory
II. Write Short notes on :	(10 x 5 = 50)
1. Fimbriae.	
2. Immuno fluorescence methods.	
3. Sources of human infection.	
4. Cytokines.	
5. Distinguishing factors of T and B lymphocytes.	

- 6. Biochemical tests to identify mycobacterium.
- 7. Human Leukocyte Antigen (HLA).
- 8. Toxins and virulence factors of streptococci.
- 9. Enterotoxigenic Escherichia Coli (ETEC).
- 10. Listeria monocytogens.

III. Short Answer Questions :

- 1. Name four anaerobic bacteria.
- 2. Name four chemical methods of sterilization.
- 3. Enrichment media.
- 4. Features of transferable drug resistance.
- 5. Diagram of Immunoglobulin.
- 6. Name four combined (T & B cell) immunodeficiency disorders.
- 7. Name four non-organ specific auto immune disorders.
- 8. Louis Pasteur.
- 9. Etiology of non-gonococcal (non-specific) urethritis.
- 10. Mention the various types of hypersensitivity reactions.

 $(10 \ge 2 = 20)$

SECOND M.B.B.S. DEGREE EXAMINATION **Revised (Non-Semester) Regulations** Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY

AUGUST 2011

Q. P. Code : 524061

Answer ALL questions. Draw Suitable diagrams wherever necessary

I. Essay Questions :

Time : Three hours

- 1. Enumerate Hypersensitivity reactions and discuss in detail about Type 4 Hyper sensitivity reaction and add a note on Shwartzman reaction.
- 2. Discuss in detail about the etiology, pathogenesis, Lab diagnosis of Bordetella pertussis.

II. Write Short notes on :

- 1. Major Histocompatibility complex.
- 2. Toxins of Clostridium perfringens.
- 3. Scrub typhus fever.
- 4. Abnormal Immunoglobulins.
- 5. Electron Microscopy.
- 6. Immunological tolerance.
- 7. Hemolytic disease of the New born.
- 8. Relapsing fever.
- 9. Transposable genetic elements
- 10. Anaerobic culture methods.

III. Short Answer questions :

- 1. Name two Heterophile Antigen Antibody reaction.
- 2. Enumerate four Liquid culture media for the cultivation of Mycobacterium tuberculosis.
- 3. Stalactite growth.
- 4. Name four Disorders of Phagocytosis.
- 5. Name two Adjuvants.
- 6. Name four determinants of Antigenicity.
- 7. Name four types of Mutation.
- 8. Name four different types of diarrheagenic Escherichia coli.
- 9. Satellitism.
- 10. Voges-Proskauer test.

Maximum: 100 Marks

 $(10 \times 5 = 50)$

 $(10 \ge 2 = 20)$

 $(2 \ge 15 = 30)$

Sub. Code : 4061

SECOND M.B.B.S. DEGREE EXAMINATION **Revised (Non-Semester) Regulations** Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY Q. P. Code : 524061

FEBRUARY 2012

Time: 180 Minutes **Maximum: 40 Marks** Answer **ALL** questions in the same order. Draw Suitable diagrams wherever necessary I. Elaborate on : 1. Define and classify hypersensitivity. Discuss the mechanisms of anaphylaxis 2. Name the bacterial agents causing pyrexia of unknown origin. Write the pathogenesis and laboratory diagnosis of acute pyogenic meningitis caused by any one of them. $(5 \times 1 = 5)$ II. Write notes on : $(10 \times 1.5 = 15)$ 1. Anaerobic culture methods 2. Staphylococcal virulence factors 3. Malignant pustule 4. Bacterial flagella 5. Polymerase chain reaction 6. Bacterial growth curve 7. ElTor vibrios 8. Rickettsiae 9. Helicobacter pylori 10. Gaseous disinfectants

III. Short Answers on :

- 1. Name two transport media
- 2. Mention two uses of darkground microscope
- 3. Give two examples for agglutination tests
- 4. Give one example for passive artificial immunity
- 5. List two pathogenic Clostridial species
- 6. Name the serological tests for diagnosing enteric fever
- 7. Name the bacterium which causes malignant pustule
- 8. Name two specific tests for confirming the diagnosis of syphilis.
- 9. Name the transmitting agent for plague
- 10. Name the animal model used for the growth of Mycobacterium leprae

 $(10 \times 1 = 10)$

(10 x 1 = 10)

SECOND M.B.B.S. DEGREE EXAMINATION Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY Q. P. Code : 524061

Time : 180 Minutes	Maxim	um: 40	Marks
Answer ALL questions.	_		
Draw Suitable diagrams wherever necessary I. Elaborate on:		Time	Marks
	0		(Max.)
 Define and describe the properties of an Ideal Disinfectant .Enumerate the various Disinfecting agents and their applications. 	16	30	10
2. Classify Enterobacteriaceae. Write the pathogenesis, diseases caused and the lab diagnosis of Salmonella typhii infections.	8	20	5
II. Write notes on:			
1. Bacterial growth curve.	3	8	1.5
2. Mutations.	3	8	1.5
3. Nucleic acid probes.	3	8	1.5
4. Mechanisms of antibiotic resistance.	3	8	1.5
5. Innate immunity.	3	8	1.5
6. Immunoglobulin M.	3	8	1.5
7. T. lymphocytes.	3	8	1.5
8. Erythroblastosis fetalis.	3	8	1.5
9. Non suppurative Streptococcal diseases.	3	8	1.5
10. Lab diagnosis of Leptospirosis.	3	8	1.5
III. Short Answers on:			
1. Name two selective media for V.cholera.	2	5	1
2. Mention the virulence factors of N.meningitidis.	2	5	1
3. Dosage schedule of Diptheria vaccine.	2	5	1
4. Mention the bacterial spore used in biological warfare.	2	5	1
5. Name two Gram Negative Anaerobic bacilli.	2	5	1
6. IMVIC test.	2	5	1
7. Mention three stages of Plague.	2	5	1
8. Name four non Cholera Vibrios.	2	5	1
9. Mention the components of Pentavalent Vaccine.	2	5	1
10. Name the HACEK group of bacteria.	2	5	1

[LC 540]

FEBRUARY 2013

Sub. Code : 4061

SECOND M.B.B.S. DEGREE EXAMINATION Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY *Q. P. Code : 524061*

Time : 180 Minutes

Maximum: 100 Marks

Answer ALL questions. Draw Suitable diagrams wherever necessary

I. Elaborate on:

- 1. Write in detail about the physiology of bacteria.
- 2. Name the bacterial agents causing sexually transmitted diseases. Write the pathogenesis and laboratory diagnosis of syphilis.

II. Write notes on :

- 1. Monoclonal antibodies.
- 2. Passive agglutination test.
- 3. Tumour antigens.
- 4. Western blot test.
- 5. Herd immunity.
- 6. Group B streptococci.
- 7. Anaerobic vaginosis.
- 8. Melioidosis.
- 9. Non agglutinating vibrios.
- 10. Legionellosis.

III. Short Answers on:

- 1. Name two selective media.
- 2. Give two examples for precipitation tests.
- 3. Name two bacterial live attenuated vaccines.
- 4. Name two bacteria having peritrichate flagella.
- 5. Name two bacteria producing exotoxins.
- 6. Name two bacteria transmitted through rodents.
- 7. Name two specimens from sterile sites.
- 8. Define plasmids.
- 9. Metchnikoff.
- 10. Name two tests to assess the function of phagocyte.

$(10 \ge 2 = 20)$

 $(10 \times 5 = 50)$

 $(2 \times 15 = 30)$

[LD 540]

AUGUST 2013

Sub. Code : 4061

SECOND M.B.B.S. DEGREE EXAMINATION Paper III – GENERAL MICROBIOLOGY, IMMUNOLOGY ANDSYSTEMIC BACTERIOLOGY Q. P. Code : 524061

Time : 180 Minutes

Maximum: 40 Marks

Answer ALL questions. Draw Suitable diagrams wherever necessary

I. Elaborate on:

 $(2 \times 7.5 = 15)$

(10 x 1.5 = 15)

 $(10 \times 1 = 10)$

1. Describe the Laboratory diagnosis of Pulmonary Tuberculosis

2. Discuss briefly on Immunofluorescence.

II. Write notes on:

- 1. Negative staining principle & uses.
- 2. Moist heat sterilisation.
- 3. Transduction Mechanism & types
- 4. Monoclonal antibodies principle, technique and applications.
- 5. Special characters of Staphylococcus aureus
- 6. Differences between Pneumococcus & Streptococcus viridans
- 7. Differences between classical and elTor vibrios.
- 8. Weils disease Laboratory diagnosis
- 9. Type III Hypersensitivity.
- 10. Immunosurveillance possible mechanisms.

III. Short Answers on:

- 1. Name the three steps in Polymerase chain reaction.
- 2. Name two activators of alternate compliment pathway.
- 3. What is isograft?
- 4. Name two coagulase negative Staphylococci infecting man.
- 5. Name two primary agents causing purulent bacterial meningitis.
- 6. Name two toxins produced by Clostridium tetani.
- 7. Name the Indole negative Proteus species.
- 8. Name the popular selective medium for Vibrio cholerae.
- 9. Name two bacteria exhibiting pleomorphism.
- 10. Name the blocking antibodies in chronic Brucellosis.

FEBRUARY 2014

Sub. Code: 4061

 $(2 \times 7.5 = 15)$

(10 x 1.5 = 15)

SECOND YEAR MBBS DEGREE EXAMINATION Paper III – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY Q. P. Code: 524061

Time : 180 Minutes

Maximum: 40 Marks

Answer **ALL** questions. Draw Suitable diagrams wherever necessary

I. Elaborate on:

- 1. Describe the Laboratory diagnosis of Enteric fever.
- 2. Define anaphylaxis. Describe the mediators and pathogenesis of anaphylaxis.

II. Write Notes on:

- 1. Quellung reaction technique and uses.
- 2. Anaerobic culture methods.
- 3. Bacterial zoonotic diseases.
- 4. Systemic autoimmune diseases.
- 5. Unique characters of Enterococcus.
- 6. McFadyean's reaction.
- 7. Photochromogens and Scotochromogens.
- 8. Lyme disease clinical features & Lab diagnosis.
- 9. Weil felix test.
- 10. Theories of Immune response.

III. Short Answers on:

- 1. Name two capsulated bacteria.
- 2. Name two enriched media.
- 3. Name two enzymes used in ELISA test.
- 4. Name the types of Coagulase test.
- 5. Name the selective medium for Gonococcus.
- 6. What is pseudohemoptysis?
- 7. Name the exotoxin producing Shigella species.
- 8. Name any two pigments produced by Pseudomonas.
- 9. Name the clinical forms of Actinomycosis in man.
- 10. Name the Immunoglobulin crossing the placenta.

(10 x 1 = 10)

Sub. Code: 4061

SECOND YEAR M.B.B.S DEGREE EXAMINATION Paper III – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY Q. P. Code: 524061

Time: Three Hours Answer ALL questions in the same order.

I. Elaborate on:

- 1. Discuss the Laboratory diagnosis of Syphilis
- 2. Define Sterilization. Discuss the methods of sterilization by Heat.

II. Write Notes on:

- 1. Bacterial Growth curve
- 2. Transport Media
- 3. Plasmids
- 4. Active immunity
- 5. Coombs test
- 6. Allograft Rejection
- 7. Agglutination reaction
- 8. Mechanisms of autoimmunity
- 9. Bacillary dysentery
- 10. Satellitism.

III. Short Answers on:

- 1. What is milk ring test? Give the use of this test.
- 2. Name four bacterial zoonotic infections.
- 3. Name four bacteria that cause food poisoning
- 4. Name four autoimmune disorders
- 5. What are the cells involved in phagocytosis?
- 6. What is Bile solubility test? Describe its principle.
- 7. Mantoux test.
- 8. What is the causative agent of relapsing fever? What are the two types?
- 9. What are the diseases caused by mycoplasma?
- 10. Describe Neill-Mooser reaction.

$(2 \times 7.5 = 15)$

Maximum: 40 Marks

(10 x 1.5 = 15)

(10 x 1 = 10)

[LF 540]

FEBRUARY 2015

PAPER III - GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY

Q.P. Code: 524061

Q.F. Coue: 524001	
Time: Three hours	Maximum : 40 Marks
Answer All Questions	
I. Elaborate on:	$(1 \times 10 = 10)$
 Classify Leptospira. Write in detail about laboratory Leptospirosis. 	v diagnosis and
II. Write notes on:	(4 x 5 = 20)
1. Laboratory diagnosis of Tetanus	
2. Types of Flagella	
3. Electron Microscope	
4. Sterilization by Radiation	
III. Short answers on:	$(5 \ge 2 = 10)$
1. Selective Media	

- 2. PCR
- 3. Laboratory diagnosis of Infection caused by Streptococcus pyogens
- 4. Non Gonococcal Urethritis (NGU)
- 5. Louis Pasteur

Sub.Code :4061

[LH 540]

AUGUST 2015

Sub. Code: 4061

SECOND M.B.B.S. DEGREE EXAMINATION PAPER III – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY

Q.P. Code: 524061

Time : Three Hours	Maximum : 40 marks
Answer ALL questions I. Elaborate:	$(1 \times 10 = 10)$
 Describe the epidemiology, pathogenesis, laboratory diagnosis of cholera. 	
II. Write notes on :	(4 x 5 = 20)
1. Conjugation.	
2. RNTCP.	
3. Types of diarrheagenic Escherichia coli.	
4. Tumor antigens.	
III. Short answers on :	$(5 \ge 2 = 10)$
1. Define agglutination and precipitation.	
2. Immunoglobulins that are able to fix complement.	
3. Characteristics of the secondary immune response.	
4 Distancial sectors is for second and have a damain the second	

4. Biological controls for assessing dry heat and moist heat sterilization.

5. Morphology of *B. anthracis*.

[LI 540]

FEBRUARY 2016

Sub. Code: 4061

SECOND YEAR M.B.B.S. DEGREE EXAMINATION PAPER III – GENERAL MICROBIOLOGY, IMMUNOLOGY AND SYSTEMIC BACTERIOLOGY

Q.P. Code : 524061

Time : Three Hours	Maximum : 40 Marks
Answer ALL questions	
I. Elaborate on:	(1 x 10 = 10)
1. Define Complement. Write about alternative C pathway and ac effects of complement and genetic deficiencies of complement	-
II. Write notes on:	$(4 \times 5 = 20)$
1. Various mechanisms by which Escherichia Coli produce Diarr	hea.
2. Fluorescent Microscope – Uses and Principles.	
3. Sterilization by Filtration methods.	
4. Difference between Cell wall of Gram Positive and Gram Nega	ative bacteria.
III. Short answers on:	$(5 \times 2 = 10)$
1. Robert Koch.	
2. Methods of Anaerobic culture.	
3. Haptens.	

- 4. Enriched Media.
- 5. DNA Probes.

Answer All Questions	
I. Elaborate on:	$(1 \times 10 = 10)$
1. Classify Rickettsiaceae. Write in detail about morphology, cultiv structure, pathogenesis and lab diagnosis of typhus fever	ation, antigenic
II. Write notes on:	$(4 \times 5 = 20)$
1. Chemical disinfectants.	
2. Structure and function of B cells.	
3. Type IV hypersensitivity.	
4. Virulence factors of staphylococcus aureus.	

II. Write

- 1. Ch
- 2. Str
- 3. Ty
- 4. Vi

III. Short answers on:

- 1. Graft versus host reaction
- 2. Bacterial growth curve
- 3. Satellitism
- 4. Enrichment media
- 5. PCR

SECOND YEAR M.B.B.S. DEGREE EXAMINATION PAPER III - GENERAL MICROBIOLOGY, IMMUNOLOGY & SYSTEMIC BACTERIOLOGY

AUGUST 2016

O.P. Code: 524061

Maximum: 40 Marks

Time: Three hours

Sub.Code:4061

 $(5 \times 2 = 10)$

[LJ 540]

FEBRUARY 2017

M.B.B.S. DEGREE EXAMINATION SECOND YEAR PAPER III – MICROBIOLOGY – I

Q.P. Code: 525063

Time: Three hours

Answer All Questions

I. Elaborate on:

1. Classify streptococci. Describe in detail the epidemiology, pathogenesis, diagnosis and management of rheumatic fever.

II. Write notes on:

- 1. CD 8+ T cells.
- 2. High level disinfection in hospitals.
- 3. Virulence determinants of bacteria.
- 4. IgM detection in infectious diseases.

III. Short answers on:

- 1. Metchnikoff.
- 2. Western blot.
- 3. Synergism.
- 4. Laboratory diagnosis of primary syphilis.
- 5. Botulism.

Sub.Code :5063

 $(5 \times 2 = 10)$

 $(1 \times 10 = 10)$

 $(4 \ge 5 = 20)$

Maximum: 40 Marks

[LK 540]

AUGUST 2017

M.B.B.S. DEGREE EXAMINATION SECOND YEAR PAPER III - MICROBIOLOGY - I

Q.P. Code: 525063

Time: Three hours

Answer All Questions

I. Elaborate on:

1. Classify sterilisation process. Describe the principle, mechanism and uses of autoclave.

II. Write notes on:

- 1. Chocolate agar.
- 2. Passive immunity.
- 3. Laboratory diagnosis of leptospirosis.
- 4. Gonococci.

III. Short answers on:

- 1. Name two bacteria with capsule.
- 2. Graft versus host reaction.
- 3. Louis Pasteur.
- 4. Mention four toxins of streptococcus pyogenes.
- 5. Name four zoonotic disease caused by bacteria.

Sub.Code :5063

 $(5 \times 2 = 10)$

Maximum: 40 Marks

 $(4 \times 5 = 20)$

 $(1 \times 10 = 10)$

[LL 540]

Answer All Questions

I. Elaborate on:

Time: Three hours

1. Enumerate the methods of gene transfer and discuss the mechanisms of drug resistance in bacteria.

II. Write notes on:

- 1. Recombinant DNA technology in vaccine production.
- 2. Auto immunity.
- 3. Enterococci.
- 4. Exotoxins.
- 5. Gaseous sterilization.
- 6. Bordetella pertussis.

III. Short answers on:

- 1. MALT.
- 2. Clostridium difficile.
- 3. Satellitism.
- 4. Widal test.
- 5. Chancre.
- 6. BCG.

SECOND YEAR PAPER III – MICROBIOLOGY – I

M.B.B.S. DEGREE EXAMINATION

FEBRUARY 2018

Q.P. Code: 525063

Maximum : 40 Marks

 $(6 \times 1 = 6)$

 $(1 \times 10 = 10)$

 $(6 \times 4 = 24)$

[LM 540]

AUGUST 2018

M.B.B.S. DEGREE EXAMINATION SECOND YEAR PAPER III – MICROBIOLOGY – I

Q.P. Code: 525063

Time: Three hours

Answer All Questions

I. Elaborate on:

1. Classify anaerobes. Describe the aetiology, pathogenesis, lab diagnosis and prophylaxis of tetanus.

II. Write notes on:

- 1. Mutations.
- 2. Complement deficiency diseases.
- 3. HLA typing.
- 4. Enterohemorrhagic escherichia coli.
- 5. Lab diagnosis of cholera.
- 6. Heat sterilization.

III. Short answers on:

- 1. Affinity and avidity.
- 2. Name any two enriched culture media.
- 3. Name the animal models used for cultivation of mycobacterium leprae.
- 4. C reactive protein.
- 5. Commensals.
- 6. Non-venereal treponemes.

 $(6 \times 4 = 24)$

 $(1 \times 10 = 10)$

 $(6 \times 1 = 6)$

Sub Couc. 5005

Maximum: 40 Marks

Sub Code: 5063

[LN 540]

Answer All Questions

1. A 15 year old boy presents with history of fever with headache, malaise and coated tongue of 8 days duration. On examinations boy was found to have step ladder pyrexia, bradycardia and soft palpable spleen. What is the probable diagnosis? Write the mode of infection, pathogenesis, lab diagnosis and treatment. Add a note on its prophylaxis.

II. Write notes on:

Time: Three hours

I. Elaborate on:

- 1. Toxins of streptococcus pyogenes.
- 2. Immunoglobulin G. (IgG).
- 3. Botulism.
- 4. Lymphogranuloma venereum.
- 5. Tuberculin testing.
- 6. Actinomycosis.

III. Short answers on:

- 1. Transposons.
- 2. Cold sterilization.
- 3. Composite media.
- 4. El Tor vibrios.
- 5. White graft response.
- 6. Enumerate four complement deficiency diseases.

M.B.B.S. DEGREE EXAMINATION SECOND YEAR

PAPER III – MICROBIOLOGY – I

Q.P. Code: 525063

Maximum: 40 Marks

(1+1+2+3+2+1=10)

$(6 \times 4 = 24)$

 $(6 \times 1 = 6)$

Sub.Code :5063

FEBRUARY 2019

[LO 540]

AUGUST 2019

M.B.B.S. DEGREE EXAMINATION SECOND YEAR PAPER III – MICROBIOLOGY – I

Q.P. Code: 525063

Time: Three hours

Answer All Questions

I. Elaborate on:

1. A 25 year old female admitted with history of watery diarrhoea resembling rice water of 24 hrs duration along with copious vomiting. What is your diagnosis? Write the pathogenesis, sample collections, lab diagnosis and treatment of the above clinical condition. Add a note prophylaxis.

II. Write notes on:

- 1. Toxic shock syndrome.
- 2. Immunoglobulin M. (IgM).
- 3. Gas gangrene.
- 4. PCR.
- 5. Soft sore.
- 6. Pasteurization.

III. Short answers on:

- 1. Enumerate Koch's postulates.
- 2. Dark ground microscopy.
- 3. Enumerate the primary mediators of anaphylaxis.
- 4. HLA.
- 5. Causative agent of actinomycosis.
- 6. Coombs test.

Maximum: 40 Marks

(1+2+1+3+2+1=10)

 $(6 \times 4 = 24)$

 $(6 \times 1 = 6)$

[LP 540]

Sub.Code :5063

SECOND YEAR PAPER III – MICROBIOLOGY – I

Q.P. Code: 525063

Time: Three hours

Answer All Questions

I. Elaborate on:

1. Classify Rickettsia. Write in detail about pathogenesis and lab diagnosis of typhus fever and write about Brill Zinsser disease.

II. Write notes on:

- 1. Radiation sterilization and gas sterilization.
- 2. Identification of bacteria.
- 3. Pseudomonas infections.
- 4. Bacillus anthrax.
- 5. ELISA.
- 6. Mycetoma.

III. Short answers on:

- 1. Flourescent microscopy.
- 2. Plasmids.
- 3. Indirect Coombs test.
- 4. Significant bacteriuria.
- 5. Vincents angina.
- 6. X D R tuberculosis.

Sub.Code :5063

Maximum: 40 Marks

(2+3+3+2=10)

 $(6 \times 4 = 24)$

 $(6 \times 1 = 6)$

FEBRUARY 2020

M.B.B.S. DEGREE EXAMINATION

[LQ 540]