BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE PUNE LIBRARY

JAPURA : SUMMER 2015
SUBJECT : GENERAL MICROBIOLOGY PAPER-I

Day : Monday
Date : 1/6/2015

Time : 2.00 P.M. TO 5.00 P.M.
Max. Marks : 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Define and classify sterilization. Describe in detail sterilization methods used in a hospital. **(25)**

Q.2 Describe the various Genetic mechanisms of drug resistance seen in bacteria. **(25)**

Q.3 Describe the various virulence factors of bacteria. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Bacterial capsule

b) IMViC reactions

c) Florescent microscope

d) Biomedical waste management

e) Disc diffusion method of ABST

f) Blood culture.

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY 37

JAPURA : SUMMER 2015
SUBJECT : SYSTEMATIC BACTERIOLOGY PAPER-II

Day : Wednesday
Date : 3/6/2015

Time : 2.00 P.M. TO 5.00 P.M
Max. Marks : 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Enumerate organisms causing zoonotic infections. Describe the pathogenicity and laboratory diagnosis of Leptospirosis in detail. **(25)**

Q.2 Describe the laboratory diagnosis of pulmonary tuberculosis. Add a note on BCG vaccine. **(25)**

Q.3 Describe the morphology, cultural characteristics, pathogenicity and laboratory diagnosis of Corynebacterium diphtheriae. Add a note on its prophylaxis. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Group B Streptococci

b) Laboratory diagnosis of UTI

c) Laboratory diagnosis of meningococcal meningitis

d) MRSA and its detection

e) Lymphogranuloma venereum

f) Haemophilus influenzae.

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY

JAPURA : SUMMER 2015
SUBJECT : MYCOLOGY AND VIROLOGY PAPER-III

Day : Friday
Date : 5/6/2015

Time : 2.00 P.M. TO 5.00 P.M
Max. Marks : 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Enumerate viruses transmitted through blood transfusions. Describe in detail laboratory diagnosis of HIV. **(25)**

Q.2 Describe the morphology, pathogenesis and laboratory diagnosis of Rabies virus. Add a note on its prophylaxis. **(25)**

Q.3 Enumerate fungi causing opportunistic infections. Describe Candidiasis in detail. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Interferon

b) Histoplasmosis

c) Mycotoxins

d) Herpes simplex virus

e) Dengue virus

f) Sporotrichosis.

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY

JAPURA : SUMMER 2015
SUBJECT : PARASITOLOGY AND IMMUNOLOGY PAPER-IV

Day : Monday
Date : 8/6/2015

Time : 2.00 P.M. TO 5.00 P.M
Max. Marks : 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Classify hypersensitivity reactions and describe Anaphylaxis in detail. **(25)**

Q.2 Enumerate Antigen antibody reactions. Describe agglutination reactions in detail. **(25)**

Q.3 Describe the morphology, life cycle and laboratory diagnosis of Plasmodium falciparum. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Giardia lamblia

b) Laboratory diagnosis of Filariasis

c) Trichuris trichiura

d) Stool concentration methods

e) Cysticercosis

f) IgG.

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JAPURA: WINTER - 2014
SUBJECT: PAPER - I
(GENERAL MICROBIOLOGY)

Day: Monday
Date: 01-12-2014

Time: 2:00 P.M. To 5:00 P.M
Max. Marks: 100

N.B.:

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Draw neat labelled diagrams **WHEREVER** necessary.

Q.1 Define sterilization. Describe the various methods of moist heat sterilization. Add a note on plasma sterilization. **(25)**

Q.2 Describe the growth requirements of bacteria and add a note on bacterial growth curve. **(25)**

Q.3 Describe the various types of culture media and also describe their uses in diagnostic microbiology with suitable examples. **(25**

Q.4 Write short notes on Any **FIVE**: **(25)**

a) Bacterial cell wall

b) Disc diffusion methods of antibiotic sensitivity testing

c) Methods of anaerobiasis

d) Carrier

e) Mutation

f) Electron microscope

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JAPURA: WINTER - 2014
SUBJECT: PAPER - II
(SYSTEMIC BACTERIOLOGY)

LIBRARY

Day: Wednesday
Date: 03-12-2014

Time: 2·00 P.M. To 5-00 P.M
Max. Marks: 100

N.B.:
1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Draw neat labelled diagrams **WHEREVER** necessary.

Q.1 Enumerate organisms causing diarrhea. Describe the laboratory diagnosis of Cholera in detail. Add a note on Halophilic vibrios. **(25)**

Q.2 Describe laboratory diagnosis of pulmonary tuberculosis with emphasis on recent techniques available. **(25)**

Q.3 Enumerate organisms causing sexually transmitted diseases. Describe laboratory diagnosis of syphilis in detail. **(25**

Q.4 Write short notes on Any **FIVE**: **(25)**

a) Diarrhoegenic E.coli

b) Pseudomonas aeruginosa

c) Pathogenicity of Streptococcus pyogenes

d) TRIC agents

e) Bordetella pertusis

f) Toxigenicity testing of Corynebacterium diphtheriae

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JAPURA: WINTER - 2014
SUBJECT: PAPER - III
(MYCOLOGY AND VIROLOGY)

Day: Friday
Date: 05-12-2014

Time: 2·00 P.M. To 5·00 P.M
Max. Marks: 100

N.B.:

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Draw neat labelled diagrams **WHEREVER** necessary.

Q.1 Describe opportunistic fungal infections in detail. **(25)**

Q.2 Describe the laboratory diagnosis of HIV infection. **(25)**

Q.3 Describe the structure, pathogenesis and laboratory diagnosis polio virus. Add a note on prophylaxis of polio. **(25**

Q.4 Write short notes on Any **FIVE**: **(25)**

a) Dermatophytosis

b) Rhinosporidiosis

c) Hepatitis B vaccine

d) Tissue culture

e) Piedra

f) Mycetism and Mycotoxins

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JAPURA: WINTER - 2014
SUBJECT: PAPER - IV
(PARASTIOLOGY AND IMMUNOLOGY)

Day: Monday
Date: 08-12-2014

Time: 2-00 P.M. To 5-00 P.M
Max. Marks: 100

N.B.:

1) Answer any **ONE**.
2) Figures to the right indicate **FULL** marks.
3) Draw neat labelled diagrams **WHEREVER** necessary.

Q.1 Describe agglutination reactions used in diagnostic microbiology. **(25)**

Q.2 Describe the morphology life cycle and pathogenicity of Wuchereria bancroftii. Add a note on laboratory diagnosis of Filariasis. **(25)**

Q.3 Enumerate Cestodes and describe Echinococcus granulosus in detail. **(25**

Q.4 Write short notes on Any **FIVE**: **(25)**

a) Monoclonal antibodies
b) Mechanisms of auto immunity
c) Macrophage
d) Giardia lamblia
e) Malaria vaccine
f) Type III hypersensitivity reaction

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JAPURA: JUNE-2014
SUBJECT : PAPER - I: GENERAL MICROBIOLOGY

Day : Monday
Date : 02-06-2014

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.:

1) All questions are compulsory.
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe the role of automation in a clinical microbiology laboratory. **[25]**

Q.2 Define sterilization. Describe the methods of moist heat sterilization in detail. Add a note on plasma sterilization. **[25]**

Q.3 Describe various methods of antibiotic sensitivity testing with emphasis on recent methods available. **[25]**

Q.4 Write short notes on **ANY FIVE** of the following: **[25]**

a) Bacterial toxins
b) Bacterial cell wall
c) Biofilms
d) CSF examination in cases of meningitis
e) Election microscope
f) Mutation

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JAPURA: JUNE - 2014

SUBJECT : PAPER - II: SYSTEMATIC BACTERIOLOGY

Day : Wednesday
Date : 04-06-2014

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.:

1) All questions are compulsory.
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Enumerate organisms causing P.U.O. and describe the laboratory diagnosis of enteric fever in detail. **[25]**

Q.2 Describe Corynebacterium diphtheriae in detail. **[25]**

Q.3 Describe the pathogenicity of Staphylococcus aureus. Also describe the laboratory diagnosis of Staphylococcal infections. Add a note on MRSA and its importance. **[25]**

Q.4 Write short notes on **ANY FIVE** of the following: **[25]**

a) Standard tests for syphilis

b) Laboratory diagnosis of leprosy

c) Clostridium tetani

d) Diarrhea producing E.Coli

e) Acinetobacter

f) Listeria monocytogenes

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JAPURA: JUNE- 2014

SUBJECT : PAPER - IV: PARASITOLOGY & IMMUNOLOGY

Day : Monday
Date : 09-06-2014

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.:

1) All questions are compulsory.
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Classify and describe hypersensitivity reactions. **[25]**

Q.2 Classify Nematodes and describe the life cycle, pathogenicity and laboratory diagnosis of Ancylostoma duodenale. **[25]**

Q.3 Enumerate antigen antibody reactions. Describe agglutinations used in diagnostic microbiology. **[25]**

Q.4 Write short notes on **ANY FIVE** of the following: **[25]**

a) Dracunculus medinensis

b) Giardia lamblia

c) Taenia saginata

d) Graft versus host reaction

e) Fasciola hepatica

f) Stool concentration methods

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JAPURA: JUNE- 2014
PAPER - III: MYCOLOGY & VIROLOGY

Day : Friday
Date : 06-06-2014

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.:

1) All questions are compulsory.
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe opportunistic fungal infections. **[25]**

Q.2 Enumerate viral infections transmitted by blood transfusion. Describe the morphology, antigenic structure, pathogenesis and laboratory diagnosis of Hepatitis B infection. Add a note on its prophylaxis. **[25]**

Q.3 Describe Herpes viruses. **[25]**

Q.4 Write short notes on **ANY FIVE** of the following: **[25]**

a) Rhinosporidiosis
b) Laboratory diagnosis of Dermatophytosis
c) Chromoblastomycosis
d) Inclusion bodies
e) Fungal stains
f) Culture media used in fungal diagnosis

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JAPURA : OCT./NOV. 2013
SUBJECT : GENERAL MICROBIOLOGY PAPER - I

Day : Saturday
Date : 05-10-2013

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe the various physical methods of sterilization. **(25)**

Q.2 Describe the role of Automation in a Clinical Microbiology laboratory. **(25)**

Q.3 Describe the various mechanisms of bacterial drug resistance. **(25)**

Q.4 Write short notes on any **FIVE:** **(25)**

a) Bacterial cell wall

b) Universal safety precautions

c) Methods of Anaerobiasis

d) Florescent Microscopy

e) Sources of infection

f) Bacterial growth curve

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JAPURA : OCT./NOV. 2013
SUBJECT : SYSTEMIC BACTERIOLOGY PAPER - II

Day : Monday
Date : 07-10-2013

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Enumerate the organisms responsible for PUO . Describe the laboratory diagnosis of Enteric fever in detail. Add a note on prophylaxis of typhoid fever. **(25)**

Q.2 Enumerate organisms causing sexually transmitted diseases. Describe the laboratory diagnosis of syphilis in detail. **(25)**

Q.3 Enumerate organisms causing wound infections. Describe the morphology, cultural characteristics, pathogenicity and laboratory diagnosis of Staphylococcus aureus. **(25)**

Q.4 Write short notes on any **FIVE:** **(25)**

a) Neisseria gonnorhoea

b) Laboratory diagnosis of Leprosy

c) Helicobacter pylori

d) TRIC agents

e) Q fever

f) Laboratory diagnosis of plague

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JAPURA : OCT./NOV. 2013
SUBJECT : MYCOLOGY AND VIROLOGY PAPER - III

Day : Wednesday
Date : 09-10-2013

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe opportunistic fungal infections. **(25)**

Q.2 Describe the cultivation of viruses in detail. **(25)**

Q.3 Describe the morphology, antigenic structures pathogenicity and laboratory diagnosis of Hepatitis B virus. **(25)**

Q.4 Write short notes on any **FIVE:** **(25)**

a) Mycetoma

b) Surface superficial mycoses

c) Interferon

d) Fungal stains

e) Antigenic variations in Influenza virus

f) Cytomegalovirus virus

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JAPURA : OCT./NOV. 2013
SUBJECT : PARASITOLOGY AND IMMUNOLOGY PAPER - IV

Day : Friday
Date : 11-10-2013

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Classify hypersensitivity reactions and describe Anaphylaxis in detail. **(25)**

Q.2 Enumerate the parasites found in peripheral blood smears. Describe the morphology, life cycle and pathogenicity of Leishmania donovani and describe the laboratory diagnosis of Visceral Leishmaniasis. **(25)**

Q.3 Enumerate antigen antibody reactions and describe Agglutination reactions. **(25)**

Q.4 Write short notes on any **FIVE:** **(25)**

a) Free living amoebae

b) Taenia solium

c) Schistosoma haematobium

d) Dracunculus medinensis

e) Monoclonal antibody

f) Difference between active and passive immunity

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JAPURA : April-May-2014

SUBJECT : PARASITOLOGY AND IMMUNOLOGY PAPER - IV

Day : Monday
Date : 07-04-2014

Time : 2.00 P.M. To 5.00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe the morphology, life cycle and pathogenicity of Wuchereria bancroftii. Add a note on the laboratory diagnosis of Filariasis. **(25)**

Q.2 Describe the structure of Immunoglobulin and describe the properties of IgG and IgA. **(25)**

Q.3 Describe the morphology, life cycle and pathogenicity of Entamoeba histolytica. Describe the laboratory diagnosis of intestinal and extraintestinal amoebiasis. **(25)**

Q.4 Write short notes on any **FIVE:** **(25)**

a) Mechanisms of autoimmunity

b) Delayed hypersensitivity

c) Graft versus host reaction

d) ELISA

e) Differences between T and B Lymphocytes

f) Liver flukes

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21

JAPURA : April-May-2014
SUBJECT : MYCOLOGY AND VIROLOGY PAPER - III

Day : Saturday
Date : 05-04-2014

Time : 2.00 P.M. To 5.00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe the morphology, pathogenicity and laboratory diagnosis of Rabies virus. Add a note on its prophylaxis. **(25)**

Q.2 Describe subcutaneous fungal infections. **(25)**

Q.3 Describe the morphology, pathogenicity and laboratory diagnosis of Human Immunodeficiency Virus. **(25)**

Q.4 Write short notes on any **FIVE:** **(25)**

a) Candidiasis

b) Aspergillosis

c) Varicella zoster virus

d) Dengue virus

e) Dermatophytosis

f) Histoplasma capsulatum

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JAPURA : (April - May - 2014

SUBJECT : SYSTEMIC BACTERIOLOGY PAPER - II

Day : Thursday
Date : 03.04.2014

Time : 2.00 P.M. To 5.00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe the laboratory diagnosis of Pulmonary tuberculosis with emphasis on recent techniques available. **(25)**

Q.2 Describe the morphology, cultural characteristics pathogenicity and laboratory diagnosis of Corynebacterium diphtheriae. **(25)**

Q.3 Enumerate organisms causing urinary tract infection and describe its laboratory diagnosis in detail. **(25)**

Q.4 Write short notes on any **FIVE:** **(25)**

a) MRSA and its importance

b) Listeria monocytogenes

c) Haemophilus influenza

d) Typhus fever

e) Lymphogranuloma venereum

f) Halophilic vibrios

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE PUNE LIBRARY 19

JAPURA : OCT./NOV. 2013
SUBJECT : GENERAL MICROBIOLOGY PAPER - I

Day : Saturday
Date : 05-10-2013

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe the various physical methods of sterilization. **(25)**

Q.2 Describe the role of Automation in a Clinical Microbiology laboratory. **(25)**

Q.3 Describe the various mechanisms of bacterial drug resistance. **(25)**

Q.4 Write short notes on any **FIVE:** **(25)**

a) Bacterial cell wall

b) Universal safety precautions

c) Methods of Anaerobiasis

d) Florescent Microscopy

e) Sources of infection

f) Bacterial growth curve

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BHARATI VIDYAPEETH MEDICAL COLLEGE 18

JAPURA : OCT./NOV. 2013
SUBJECT : SYSTEMIC BACTERIOLOGY PAPER - II

Day : Monday
Date : 07-10-2013

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Enumerate the organisms responsible for PUO . Describe the laboratory diagnosis of Enteric fever in detail. Add a note on prophylaxis of typhoid fever. **(25)**

Q.2 Enumerate organisms causing sexually transmitted diseases. Describe the laboratory diagnosis of syphilis in detail. **(25)**

Q.3 Enumerate organisms causing wound infections. Describe the morphology, cultural characteristics, pathogenicity and laboratory diagnosis of Staphylococcus aureus. **(25)**

Q.4 Write short notes on any **FIVE:** **(25)**

a) Neisseria gonnorhoea

b) Laboratory diagnosis of Leprosy

c) Helicobacter pylori

d) TRIC agents

e) Q fever

f) Laboratory diagnosis of plague

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8

JAPURA : OCT./NOV. 2013
SUBJECT : MYCOLOGY AND VIROLOGY PAPER - III

Day : Wednesday
Date : 09-10-2013

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe opportunistic fungal infections. **(25)**

Q.2 Describe the cultivation of viruses in detail. **(25)**

Q.3 Describe the morphology, antigenic structures pathogenicity and laboratory diagnosis of Hepatitis B virus. **(25)**

Q.4 Write short notes on any **FIVE:** **(25)**

a) Mycetoma

b) Surface superficial mycoses

c) Interferon

d) Fungal stains

e) Antigenic variations in Influenza virus

f) Cytomegalovirus virus

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JAPURA : OCT./NOV. 2013
SUBJECT : PARASITOLOGY AND IMMUNOLOGY PAPER - IV

Day : Friday
Date : 11-10-2013

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Classify hypersensitivity reactions and describe Anaphylaxis in detail. **(25)**

Q.2 Enumerate the parasites found in peripheral blood smears. Describe the morphology, life cycle and pathogenicity of Leishmania donovani and describe the laboratory diagnosis of Visceral Leishmaniasis. **(25)**

Q.3 Enumerate antigen antibody reactions and describe Agglutination reactions. **(25)**

Q.4 Write short notes on any **FIVE:** **(25)**

a) Free living amoebae

b) Taenia solium

c) Schistosoma haematobium

d) Dracunculus medinensis

e) Monoclonal antibody

f) Difference between active and passive immunity

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JAPURA : April-May - 2013
SUBJECT : GENERAL MICROBIOLOGY PAPER-I

Day : Saturday
Date : 6-4-2013

Time : 2:00 P.M. To 5:00 P.M.
Max. Marks : 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Classify Biomedical wastes generated in the hospital. Describe in detail biomedical waste management and its disposal. **(25)**

Q.2 Describe the different microbial virulence factors. **(25)**

Q.3 Describe the genetic mechanisms of drug resistance in bacteria. Write briefly on antibiotic resistance testing. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Florescent microscopy

b) Chemical disinfectants

c) IMViC reactions

d) Anaerobic jar

e) Immunoblotting techniques

f) Special stains used in bacteriology.

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JAPURA : April-May - 2013
SUBJECT : SYSTEMIC BACTERIOLOGY PAPER-II

Day : Monday
Date : 8-4-2013

Time : 2.00 P.M. To 5.00 P.M
Max. Marks : 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe the morphology, cultural characters, virulence factors and pathogenicity of Staphylococcus aureus. Describe the laboratory diagnosis of Staphylococcal infections. Add a note on MRSA detection and its clinical importance. **(25)**

Q.2 Enumerate medically important Mycobacteria. Describe in detail the laboratory diagnosis of pulmonary tuberculosis. Add a note on the recent techniques available. **(25)**

Q.3 Enumerate bacterial zoonotic infections. Describe Leptospirosis in detail. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Bacillary dysentery

b) Bacillus anthracis

c) Chlamydia trachomatis.

d) Laboratory diagnosis of tetanus

e) Pathogenicity and complications of Corynebacterium diphtheriae

f) Neisseria meningitidis.

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JAPURA : April-May-2013

SUBJECT : MYCOLOGY AND VIROLOGY PAPER-III

Day : Wednesday
Date : 10-04-2013

Time : 2:00 P.M. To 5:00 P.M.
Max. Marks : 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe the laboratory diagnosis of viral infections. **(25)**

Q.2 Describe the morphology, antigenic structure, pathogenicity and laboratory diagnosis of Hepatitis B virus. **(25)**

Q.3 Enumerate subcutaneous fungal infections. Describe Mycetoma in detail. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Cryptococcus neoformans

b) Aspergillosis

c) Rabies vaccine

d) Dengue virus

e) Hypersensitivity testing for fungal infections

f) Interferon.

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY 12

JAPURA : April-May - 2013

SUBJECT : PARASITOLOGY AND IMMUNOLOGY PAPER-IV

Day : Friday
Date : 12.4.2013

Time : 2.00 P.M. To 5.00 P.M.
Max. Marks : 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe the morphology, lifecycle and pathogenicity of Plasmodium falciparum. Add a note on laboratory diagnosis of malignant tertian malaria. **(25)**

Q.2 Describe hypersensitivity reactions in detail. **(25)**

Q.3 Describe the morphology, lifecycle, pathogenicity and laboratory diagnosis of Ancylostoma duodenale. Add a note on stool concentration techniques. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Immunoflorescence

b) Immunodeficiency diseases

c) Antigen

d) Monoclonal antibodies

e) Dracunculus medinensis

f) Allograft rejection.

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M.Sc. microbiology

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JAPURA : OCT./ NOV. 2012
SUBJECT : GENERAL MICROBIOLOGY PAPER-I

Day : Saturday
Date : 06-10-2012

Time : 2.00 P.M. To 5.00 P.M.
Max. Marks : 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe in detail quality control in Microbiology laboratories. Add a note on applications of computers in Microbiology laboratories. **(25)**

Q.2 Define sterilization. Describe moist heat sterilization in detail. Add a note on recent techniques of sterilization in use. **(25)**

Q.3 Describe the different in vitro antibiotic susceptibility testing methods including tests for detection of Minimum Inhibitory Concentration (MIC). **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Phase contrast microscope

b) Bacterial toxins

c) Selective media

d) Anaerobiosis

e) Polymerase chain reaction

f) Use of automation in blood cultures.

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY

JAPURA : OCT./ NOV. 2012
SUBJECT : SYSTEMIC BACTERIOLOGY PAPER-II

Day : Monday
Date : 08-10-2012

Time : 2.00 P.M. To 5.00 P.M.
Max. Marks : 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Enumerate the organisms causing Pyrexia of unknown origin. Describe the pathogenesis, clinical features, laboratory diagnosis and prophylaxis of Enteric fever. **(25)**

Q.2 Describe Corynebacterium diphtheriae in detail. **(25)**

Q.3 Enumerate sexually transmitted diseases. Describe the pathogenesis and laboratory diagnosis of syphilis. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Neisseria gonnorhoea

b) Laboratory diagnosis of Leprosy

c) Mycoplasma

d) Botulism

e) Halophilic vibrio

f) Laboratory diagnosis of plague.

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY

JAPURA : OCT./ NOV. 2012
SUBJECT : MYCOLOGY AND VIROLOGY PAPER-III

Day : Wednesday
Date : 10.10.2012

Time : 2.00 P.M. To 5.00 P.M.
Max. Marks : 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe the bacteriophage in detail. **(25)**

Q.2 Enumerate viruses causing transfusion transmitted diseases. Describe the pathogenesis, clinical features and laboratory diagnosis of HIV infection. **(25)**

Q.3 Enumerate opportunistic fungal infections. Describe candidiasis in detail including the laboratory diagnosis of candida infections. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Dermatophytosis

b) Histoplasma capsulatum

c) Mycetoma

d) Mycotic poisoning

e) Polio vaccine

f) Antigenic variation in influenza virus.

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY

JAPURA : OCT./ NOV. 2012
SUBJECT : PARASITOLOGY AND IMMUNOLOGY PAPER-IV

Day : Friday
Date : 12-10-2012

Time : 2.00 P.M. To 5.00 P.M.
Max. Marks : 100.

N.B.:
1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe the morphology, life cycle and pathogenicity of Entamoeba histolytica. Describe the laboratory diagnosis of amoebic dysentery. Add a note on free living amoebae. **(25)**

Q.2 Describe the structure of immunoglobulins and describe the different classes of immunoglobulins. **(25)**

Q.3 Classify nematodes. Describe the morphology, lifecycle and pathogenicity of Wuchereria bancroftii. Describe the laboratory of filariasis. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Delayed hypersensitivity reaction

b) ELISA

c) Mechanisms of autoimmunity

d) Acquired immunity

e) Major histocompatibility complex

f) Cysticercosis.

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY

M.Sc (medical) microbiology

JAPURA : OCT/NOV-2011
SUBJECT : PAPER - I (Microbiology)
(GENERAL MICROBIOLOGY)

Day : Saturday
Date : 08-10-2011

Time : 2:00 P.M. TO 5:00 P
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Discuss about the growth requirements of bacteria (Media) and the identification of bacteria by various biochemical tests. **(25)**

Q.2 Define 'Disinfection'. Discuss characteristics of a disinfectant and different disinfectants in relation to their activity, uses and limitations. Add a note on testing of disinfectants. **(25)**

Q.3 Discuss the newer diagnostic techniques used for diagnosis in clinical microbiology. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Use of laboratory animals in Microbiology
b) Genetic engineering
c) Florescent microscopy
d) Bacterial cell wall
e) Special staining method and their significance
f) Biomedical waste disposal

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY

JAPURA : Oct/Nov-2011
SUBJECT : PAPER - II (Microbiology)
(SYSTEMIC BACTERIOLOGY)

Day : Monday
Date : 10-10-2011

Time : 2:00 P.M. TO 5:00 P.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Enumerate organisms causing Gastroenteritis. Discuss the diarrheagenic Escherichia coli. Briefly describe detection of toxins produced by these Escherichia. **(25)**

Q.2 Enumerate zoonotic bacterial diseases. Describe the epidemiology and laboratory diagnosis of Leptospirosis and Plague. **(25)**

Q.3 Enumerate organisms causing sore throat. Discuss morphology cultural characters and pathogenicity of Group A Streptococci. Add a note on laboratory diagnosis of streptococcal sore throat **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Non sporing anaerobes
b) Wool sorters disease
c) Melidiosis
d) Laboratory of whooping cough
e) Atypical Mycobacteria
f) Chlamydia trachomatis

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BHARATI VIDYAPEETH DEEMED UNIVERSITY MEDICAL COLLEGE, PUNE LIBRARY 5

JAPURA : Oct/Nov-2011
SUBJECT : PAPER - III (Microbiology)
(MYCOLOGY AND VIROLOGY)

Day : Wednesday
Date : 12-10-2011

Time : 2:00 P.M. TO 5:00 P
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Enumerate Hepatitis viruses. Discuss the morphology and pathogenesis of Hepatitis B virus. Describe briefly laboratory diagnosis of HBV infection and add a note on its prophylaxis. **(25)**

Q.2 Discuss subcutaneous mycosis. **(25)**

Q.3 Describe Arthropod borne viral infections common in India. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Candidosis
b) Laboratory monitoring of HIV infection
c) Aspergillosis
d) Prion diseases
e) Cytomegalovirus
f) Special stains for fungi

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JAPURA : Oct/Nov-2011
SUBJECT : PAPER - IV (Microbiology)
(PARASTIOLOGY AND IMMUNOLOGY)

Day : Friday
Date : 14-10-2011

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q.1 Describe Agglutination reactions and their application in the diagnosis of febrile illnesses. **(25)**

Q.2 Enumerate parasites infecting the liver. Describe the morphology, life cycle and pathogenicity if Echinococcus granulosus. Add a note on laboratory diagnosis of Hydatid disease. **(25)**

Q.3 Give an account of the natural defense mechanisms in the body. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Rapid test for diagnosis of Malaria
b) Larva migrans
c) Toxoplasmosis
d) Monoclonal antibodies
e) Trichinella spiralis
f) Parasitic meningitis

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JAPURA : APRIL/MAY 2008
SUBJECT : MICROBIOLOGY PAPER - I
(General Microbiology)

micro

Day : Wednesday
Date : 09-04-2008

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.

1) All questions are **COMPULSORY.**
3) Figures to the right indicate **FULL** marks.
2) Draw neat **DIAGRAM** wherever necessary

Q.1 Describe genetic attributes of bacteria. **(25)**
Describe in brief bacterial conjugation and its role in antibiotic resistance of bacteria giving suitable examples.

Q.2 Describe role of biochemical reactions in identification of bacterial group and species giving suitable examples. **(25)**

Q.3 Define antibody. Describe in brief commonly used antigen antibody reactions giving suitable examples. **(25)**

Q.4 Write short notes on any **FIVE** of the following: **(25)**

a) Lymphocytes

b) B.O.D. incubator

c) Koch's postulates

d) Bacterial fimbria

e) Bacterial toxoids

f) Growth curve of bacteria

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JAPURA : APRIL / MAY 2008
SUBJECT: MICROBIOLOGY PAPER-III
(Mycology and Virology)

Day : Friday
Date : 11.04.2008

Time: 2:00 PM TO 5:00 PM.
Max. Marks: 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat **DIAGRAM** wherever necessary.

Q.1 Discuss methods of virus cultivation giving examples. Describe role of isolation and identification of viruses causing aseptic meningitis. **[25]**

Q.2 Name common dermatophytes. Describe plan of laboratory diagnosis of fungal disease of hair. **[25]**

Q.3 Enumerate entero viruses. Describe laboratory diagnosis of poliomyelitis. Mention prophylaxis against poliomyelitis. **[25]**

Q.4 Write short notes on **ANY FIVE** of the following: **[25]**

a) Anti retroviral drugs
b) Medically important Candida
c) Genital warts
d) Dimorphic fungi
e) Rota Virus
f) Chikungunya virus infection

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U. G.

JAPURA: APRIL / MAY 2008
SUBJECT: MICROBIOLOGY PAPER-IV
(Parasitology and Immunology)

Day : Saturday
Date : 12.04.2008

Time: 2:00 P.M. TO 5:00 P.M.
Max. Marks: 100.

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat **DIAGRAM** wherever necessary.

Q.1 Enumerate medically important protozoan parasites. Describe in brief role of E. histolytica in extra intestinal amoebiasis. **[25]**

Q.2 Enumerate intestinal nematodes. Describe in brief round worm disease in man. **[25]**

Q.3 Describe in detail antibody production mechanism giving suitable examples. **[25]**

Q.4 Write short notes on **ANY FIVE** of the following: **[25]**

a) Plasmodium falciparum

b) Parasitic cysts

c) Loa Loa

d) IgA

e) Precipitation reactions

f) Properdin

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