Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Sc. Nursing (PC) Degree Examination - 06-Mar-2023

Time: Three Hours

Max. Marks: 75

MICROBIOLOGY (RS-3 & RS-4) Q.P. CODE: 1735

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Describe the pathogenesis, clinical manifestations and laboratory diagnosis of pulmonary tuberculosis. Write a note on BCG
- 2. Describe the pathogenesis and laboratory diagnosis of Hepatitis B virus
- 3. Draw a neat labelled diagram of bacterial cell and explain about bacterial spore

SHORT ESSAYS (Answer any Seven)

 $7 \times 5 = 35 \text{ Marks}$

- 4. Life cycle of Hook worm
- 5. Differences between Endotoxins and Exotoxins
- 6. VDRL test
- 7. Dermatophytosis
- 8. Laboratory diagnosis of malaria
- 9. Define selective and enrichment media. Give two examples each
- 10. Widal test
- 11. Microfilaria
- 12. Gram's staining (Principle, procedure and observation)

SHORT ANSWERS

 $10 \times 2 = 20 \text{ Marks}$

- 13. Draw immunoglobulin A (IgA)
- 14. Two methods for detection of bacterial motility
- 15. Two contribution of Robert Koch
- 16. Draw Giardia intestinalis
- 17. Anaerobic media
- 18. Ascaris egg
- 19. Mention two bacterial live vaccines
- 20. Give two examples of DNA viruses
- 21. Incinerator
- 22. Two biological vectors

Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Sc. Nursing (PC) Degree Examination - 27-May-2022

Time: Three Hours

Max. Marks: 75 Marks

MICROBIOLOGY (RS3 & RS4) Q.P. CODE: 1735

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Describe and classify hypersensitivity. Write in detail about anaphylaxis.
- Classify mycobacterium. Explain detail about morphology and pathogenesis and lab diagnosis of pulmonary tuberculosis.
- Define sterilization. Classify sterilization method. Explain detail about autoclave.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- Bacterial spore.
- 5. Widal test.
- Life cycle of round worm.
- Acid fast staining.
- 8. Nosocomial infection.
- 9. Differential medial,
- 10. Prophylaxis of rables virus.
- 11. Laboratory diagnosis of enteric fever.
- 12. Candida albicans.

SHORT ANSWERS

- 13. Contribution of Robert Koch.
- Name four DNA virus and RNA viruses.
- What is Zoonotic diseases? Give two examples.
- 16. Name four transport media.
- 17. DPT vaccine.
- 18. Name type of bacteria flagella.
- 19. VDRL test.
- Name four gaseous disinfectants.
- Name four species of plasmodium cause malaria.
- 22. Name four spore containing bacterial diseases.

I year B.Sc. Nursing (PC) Degree Examination - 09-Feb-2022

Time: Three Hours

Max. Marks: 80 Marks

MICROBIOLOGY (RS2) Q.P. CODE: 1704

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Define and classify sterilization. Add a note on sterilization by moist heat.
- List the bacteria causing sexually transmitted diseases. Describe the pathogenesis and lab diagnosis of syphilis.
- Describe the morphology of entamoeba histolytica and discuss the lab diagnosis of intestinal amoebiasis.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

- 4. Bacterial capsule
- Trichomonas vaginalis
- 6. Life cycle of malarial parasites
- 7. Ziehl Neelsen stain
- 8. Widal test
- 9. Type I hypersensitivity
- 10. Candida albicans
- Prophylaxis for rabies
- Hospital borne infection.
- 13. DPT

SHORT ANSWERS

10 x 2 = 20 Marks

- Draw neat, labeled diagram of IgM.
- 15 Name two spore-forming bacteria.
- Name two bacteria causing food poisoning.
- Name two gaseous disinfectants.
- 18. Intermediate host
- 19. Name two RNA viruses
- 20. Define antigen
- 21. Mention two modes of transmission of HIV infection.
- 22. Draw a neat, labeled diagram of hookworm ova.
- 23. Significant bacteriuria

Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Sc. Nursing (PC) Degree Examination - 04-Aug-2021

Time: Three Hours

Max. Marks: 75 Marks

MICROBIOLOGY - (RS-3 & RS-4) Q.P. CODE: 1735

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Define and Classify immunity. Write about acquired immunity.
- Discuss the source and mode of transmission of hospital infection and add a note on preventive measures.
- What is enteric fever? Write about the Pathogenesis and Lab diagnosis of Typhoid Fever.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- 4. Draw a neat labeled diagram of bacterial cell and explain cell membrane.
- Define sterilization. Explain sterilization by hot air oven.
- 6. Candidiasis.
- Serological tests for Syphilis.
- Grams staining.
- 9. Varicella Zoster Virus.
- 10. Oral Thrush.
- 11. Rabies.
- Lab Diagnosis of Pulmonary Tuberculosis.

SHORT ANSWERS

- Define medical microbiology.
- Define Koch's phenomenon.
- 15. Define anaerobic culture media.
- Name the parasites whose ova are detected in stool microscopy.
- Name the four phases of bacterial growth.
- Mention any two transport media.
- 19. Name two gaseous disinfectants.
- Define pasteurization.
- 21. Name three diseases caused by clostridium.
- 22. Name two diseases caused by spirochetes.

Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Sc. Nursing (PC) Degree Examination - 01-Dec-2020

Time: Three Hours

Max. Marks: 75 Marks

MICROBIOLOGY - (RS-3 & RS-4) Q.P. CODE: 1735

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Define Sterilization. Write the principles of Sterilization. Explain detail about Dry heat method.
- Draw a neat labelled diagram of Bacterial Cell and write about Bacterial flagella.
- Describe the Morphology, Cultural characters, Pathogenecity and Laboratory diagnosis of Staphylococcal Aureus.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- Explain special staining method (Albert staining and Impregnation method) with examples.
- Explain harmful effects of microorganisms.
- Define Bio-medical waste and describe the different methods of bio-medical waste treatment.
- Define disinfection and explain disinfection by using halogens.
- Active Immunity.
- 9. Laboratory diagnosis of UTI.
- 10. Kala Azar.
- 11. Write a note about Hepatitis B
- 12. Dermatophytes.

SHORT ANSWERS

10 x 2 = 20 Marks

- Define negative staining.
- 14. Define sensitivity test.
- 15. Define precipitation reaction.
- Define carrier.
- Give two example of Aerobic bacterias.
- Mention the use of TAB vaccine.
- Name two DNA viruses.
- 20. Compound Microscope.
- 21. Name two acid fast bacteria.
- 22. Name two Agglutination tests.

Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Sc. Nursing (PC) Degree Examination - 11-Sep-2020

Time: Three Hours

Max. Marks: 75 Marks

MICROBIOLOGY (RS3 & RS4) Q.P. CODE: 1735

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Define and classify immunity. Describe in detail active immunity.
- Describe the morphology and cultural characteristics of Corynebacterium diphtheria. Write in detail laboratory diagnosis of diphtheria.
- Write the pathogenesis, laboratory diagnosis and immunoprophylaxis of rables.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- 4. Laboratory diagnosis of enteric fever
- 5. Methicillin Resistant Staphylococcus Aureus (MRSA)
- Tyndallization
- 7. Bacterial flagella
- 8. Immunoflurescence
- 9. Complement fixation test
- Candia albicans
- Bacterial toxins
- 12. Larva migrans

SHORT ANSWERS

10 x 2 = 20 Marks

- Four agents causing sexually transmitted diseases
- Koch's postulates
- Ziehl Neelsen Stain
- Draw a neatly labelled diagram of bacterial cell
- 17. Name two killed vaccines
- 18. Sterilization controls for autoclave
- 19. KOH mount
- 20. Inclusion body with an example
- 21. Name two parasitic infections in which Man acts as intermediate host
- 22. Prophylaxis for Hepatitis B

Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Sc. Nursing (PC) Degree Examination - OCT-2019

Time: Three Hours

Max. Marks: 75 Marks

Microbiology (RS-3 & RS-4) Q.P. CODE: 1735

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Define sterilization. Describe different methods of dry heat sterilization.
- Describe in detail laboratory diagnosis of syphilis.
- Describe morphology and life cycle of Entamoeba histolytica. Write in detail the laboratory diagnosis of intestinal amoebiasis.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- 4. Laboratory diagnosis of cholera
- 5. Bacterial meningitis
- Bacterial growth curve
- Compare and contrast poliomyelitis vaccines
- 8. Agglutination reactions
- Classify fungi with examples
- Antibiotic susceptibility testing
- 11. Methods of anaerobic culture
- Laboratory diagnosis of Cryptococcal meningitis

SHORT ANSWERS

10 x 2 = 20 Marks

- 13. Weil Felix test
- Name two bacteria causing wound infections
- Selective media definition with one example
- 16. Robert Koch
- 17. Herd immunity
- 18. Dimorphic fungi
- 19. Name two chemical sterilizing agents
- 20. Draw a neat labelled diagram of ova of hookworm
- 21. Name two RNA viruses
- 22. Methods of demonstrating bacterial motility

I Year B.Sc. Nursing (PC) Degree Examination - APRIL-2019

Time: Three Hours

Max. Marks: 75 Marks

Microbiology (RS-3 & RS-4) Q.P. CODE: 1735

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Classify immunity. Discuss in detail innate immunity, 1.
- Write causative agents of Sexually Transmitted Diseases. Describe morphology and 2 laboratory diagnosis in a case of gonorrhoea.
- Name the malarial parasites. Explain the life cycle and laboratory diagnosis of plasmodium 3. falciparum.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- Bacillary dysentery 4.
- Laboratory diagnosis of Urinary Tract Infection 5.
- 6. Autociave - principle, working, uses, controls
- 7. Bacterial spore
- 8. ELISA
- 9. Precipitation reaction
- 10. Fumigation
- Ankylostoma duodenale life cycle and laboratory diagnosis 11.
- 12. DPT vaccine

SHORT ANSWERS

- 13. Satellitism
- Two bacteria causing food poisoning 14.
- 15. Albert stain
- 16. Transport media definition and example
- 17. Name two live attenuated vaccines.
- 18. Draw a neat labelled diagram of Immunoglobulin G
- 19. Oral thrush
- 20. LPCB mount
- 21. Name two parasites transmitted through feco-oral route
- 22. Name two DNA viruses

I Year B.Sc. Nursing (PC) Degree Examination - SEP-2018

Time: Three Hours

Max. Marks: 75 Marks

Microbiology (RS-3 & RS-4) Q.P. CODE: 1735

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Define and classify hypersensitivity reactions. Describe in detail Type I hypersensitivity reaction.
- What is nosocomial infection? Describe different types of infection in the hospital with examples.
- Describe the various methods of cultivation of viruses.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- 4. Prophylaxis for tetanus
- Laboratory diagnosis in a suspected case of pulmonary tuberculosis
- 6. Hot air oven
- Bacterial capsule
- B. VDRL
- 9. Passive immunity
- Dermatophytes
- 11. Segregation of biomedical waste
- Laboratory diagnosis of Human Immunodeficiency Virus infection

SHORT ANSWERS

10 x 2 = 20 Marks

- Coagulase test
- 14. Widal test
- 15. Gram stain
- 16. Enriched media-definition with one example
- 17. Draw the structure of Immunoglobulin M
- 18. ASLO
- 19. India ink
- 20. Louis Pasteur
- 21. Draw a neat labelled diagram of ova of round worm
- 22. Draw a neat labelled diagram of Hepatitis B virus

Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Sc. Nursing (PC) Degree Examination - ARPIL 2018

Time: Three Hours

Max. Marks: 75 Marks

MICROBIOLOGY (RS-3 & RS-4)

Q.P. CODE: 1735

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Define and classify hypersensitivity reactions. Discuss in detail type I hypersensitivity.
- Describe the pathogenecity and laboratory diagnosis of coryne bacterium diphtheria.
- Enumerate Hepatitis viruses. Write in detail on Hepatitis B virus

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- Fumigation
- Genecocal infections
- Sterilization using dry heat
- 7. Innate immunity
- 8. Stool examination for parasitic ova and cyst
- Nosocomial Infection
- 10. Prophylaxis of Poliomyelites
- Laboratory diagnosis of enteric fever
- 12. Universal precautions

SHORT ANSWERS

10 x 2 = 20 Marks

- 13. Write two contributions of Robert Koch.
- 14. Oral thrush
- Draw a neat, labeled diagram of Immunoglobulin M (IgM) molecule.

- Define sterilization and disinfection.
- 17. DPT vaccine
- Draw a neat, labeled diagram of HIV virus.
- Classify bacteria according to shape.
- Name two bacteria causing zoonosis.
- Define transport media. Give one example.
- 22. Name two methods of pasteurization.

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Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Sc. Nursing (PC) Degree Examination - OCT - 2017

Time: Three Hours

Max. Marks: 75 Marks

MICROBIOLOGY (RS-3 & RS-4)

Q.P. CODE: 1735

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- 1. Describe the pathogenesis, clinical features and laboratory diagnosis of enteric fever
- 2. Describe the morphology, pathogenesis and laboratory diagnosis of Entamoeba histolytica
- 3. Define immunity classify immunity write in detail about innate immunity

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- 4. Viral multiplication
- 5. Differential media with examples
- Types IV hypersensitivity
- Bacterial filters:
- 8. VDRL test
- Life cycle of Ascaris lumbricoides
- 10. Acid fast staining
- 11. Prophylaxis of Rabies
- 12. Lab diagnosis of pulmonary tuberculosis

SHORT ANSWERS

- Draw a neat labelled diagram of HIV virus.
- 14. Mention any two RNA viruses
- 15. Name 2 gram positive and 2 gram negative bacteria
- 16. Name the antibodies
- 17. MMR vaccine
- 18. Name any two wound infection causing bacteria
- 19. Mention any two bacterial sexually transmitted diseases
- Draw a neat labelled diagram of Glardia intestinalis.
- 21. Mention any two urinary tract infections causing bacteria
- 22. Name any two viral sexually transmitted diseases

I Year B.Sc. Nursing (PC) Degree Examination - April 2017

Time: Three Hours

Max. Marks: 75 Marks

MICROBIOLOGY (RS-3 & RS-4)

Q.P. CODE: 1735

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Classify Mycobacteria, Describe the laboratory diagnosis of pulmonary tuberculosis and add a note on RNTCP
- Define viruses. Classify viruses. Write in detail about cultivation of viruses.
- Define sterilization. Mention different physical methods of sterilization. Explain in detail about autoclaving

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- Candida albicans
- Hepatits A
- 6. Bacterial flagella
- Gram's staining principle and procedure
- 8. Innate immunity
- Taenia solium life cycle, clinical features and laboratory diagnosis
- Laboratory diagnosis of Typhoid fever
- 11. Trichomonas vaginalis
- 12. Type IV Hypersensitivity

SHORT ANSWERS

- Write any two Enrichment media
- 14. Test for HIV
- 15. Mention any two gaseous disinfectants
- 16. Name any two bacteria causing food borne illness
- 17. Tyndalization
- 18. What is passive immunity
- 19. Name the antibodies
- 20. Define vaccine
- 21. Name any two Rabies vaccines
- 22. Mention any two zoonotic diseases

Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Sc. Nursing (PC) Degree Examination - SEP 2016

Time: Three Hours

Max. Marks: 75 Marks

MICROBIOLOGY (RS-3 & RS-4)

Q.P. CODE: 1735

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Describe the morphology, life cycle and laboratory diagnosis of Entamoeba histolytica.
- Classify streptococci. Describe the pathogenecity and laboratory diagnosis of streptococci pyogens.
- Define and classify Immunity, Describe innate immunity.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- 4. Autoclave
- 5. Hepatits B virus
- 6. Bacterial spore structure and functions.
- 7. Gram staining principle and procedure
- 8. Differences between Bacteria and viruses
- Ascaris lumbricoides life cycle, clinical features and lab diagnosis
- 10. Laboratory diagnosis of pulmonary tuberculosis
- 11. Write a note on koch's postulates
- 12. ELISA and its uses

SHORT ANSWERS

10 x 2 = 20 Marks

- Write any two dermatophytes
- 14. Name any two bacterial filters
- Name any two neurotropic viruses
- Draw a neat labeled diagram of viruses
- 17. What are Antibodies?
- Name any two tapeworms
- Define Hypersensitivity
- 20. Define chemotherapy
- Name any two transport media
- 22. Mention any two zoonotic bacterial diseases

I Year B.Sc. Nursing (PC) Degree Examination - MAY 2016

Time: Three Hours

Max. Marks: 75 Marks

MICROBIOLOGY (RS-3 & RS-4)

Q.P. CODE: 1735

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Classify immunity. Describe innate immunity. 1.
- Classify hepatitis viruses. Describe the pathogenecity and laboratory diagnosis of Hepatitis 2 B virus.
- List the malarial parasites. Describe the life cycle and laboratory diagnosis of P.falciparum. 3.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

- Cell mediated immunity
- 5. Blood culture
- 6. Widal test
- 7 Bacterial toxin
- 8. Laboratory diagnosis of post streptococcal sequelae
- 9. Bacterial growth curve
- 10. Anaphylaxis
- 11. Laboratory diagnosis of fungal infections
- Prophylaxis in Rabies 12.

SHORT ANSWERS

10 x 2 = 20 Marks

- Name 2 methods of pasteurization.
- 14. Name 2 bacteria causing wound infection.
- 15. Hapten
- 16. Name the hospital infectious diseases.
- 17. Name 2 methods for cultivation of viruses.
- 18. Draw a neat and labeled diagram of IgG.
- 19. Draw a neat and labeled diagram of A lumbricoides ova.
- 20. Name 2 opportunistic fungal infections.
- Name 2 protozoal parasites causing diarrhea. 21.
- 22. Name the different genera of dermatophytes.