

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.P.T. Degree Examination - 05-Jul-2022

Time: 3 Hours

Max. Marks: 40 Marks

PATHOLOGY (RS-3 & RS-4)

Q.P. Code : 2708

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

(Note : Both QP Codes 2708 and 2709 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Define neoplasia. Discuss and tabulate the differences between benign and malignant tumor.
2. Define and classify cirrhosis. Discuss the pathogenesis and morphology of alcoholic cirrhosis.

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

3. Gross and microscopy of pleomorphic adenoma.
4. Protein – energy malnutrition.
5. Type II hypersensitivity.
6. Tuberculosis arthritis.

SHORT ANSWERS

5 x 3 = 15 Marks

7. Eosinophilia.
8. Write three laboratory diagnosis of sickle cell anemia.
9. Mention three complications of chronic rheumatic heart disease.
10. Opportunistic infections in HIV.
11. Name three carcinomas of thyroid.

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PATHOLOGY - (RS-5)

Q.P. Code: 2737

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

(Note : Both QP Codes 2737 and 2738 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Define and classify neoplasia. Discuss tabulate the differences between benign and malignant tumor.
2. Define leukemia. Describe etiology, clinical features and blood picture of chronic myeloid leukemia (CML).

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

3. Gross and microscopy of Warthin's tumor.
4. Metastatic calcification with examples.
5. Sequence of events in phagocytosis.
6. Osteoporosis.

SHORT ANSWERS

5 x 3 = 15 Marks

7. Neutrophilia.
8. Opportunistic infections in HIV.
9. Mention three complications in diabetes mellitus.
10. Morphology of chronic venous congestion (CVC) of lung.
11. Write three major risk factors of hepatocellular carcinoma (HCC).



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MICROBIOLOGY (RS-3 & RS-4)

Q.P. Code : 2709

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

(Note : Both QP Codes 2708 and 2709 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Define and classify sterilization. Write in detail about moist heat methods of sterilization.
2. Define and classify immunity. Give a detailed account on innate immunity.

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

3. Contributions of Louis Pasteur in the field of microbiology.
4. Prophylaxis of viral diseases.
5. Staphylococcus aureus – Morphology and laboratory diagnosis.
6. Antifungal agents.

SHORT ANSWERS

5 x 3 = 15 Marks

7. Name three organisms causing zoonotic diseases.
8. Bacterial capsule.
9. Structure of HIV.
10. Mention three differences between endotoxin and exotoxin.
11. BCG.



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Microbiology - (RS-5)

Q.P. Code: 2738

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

(Note : Both QP Codes 2737 and 2738 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Define antigen antibody reactions. Describe the structure, functions and importance of IgG immunoglobulin
2. Classify mycobacteria. Describe the pathogenesis and laboratory diagnosis of pulmonary tuberculosis. Add a note on RNTCP

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

3. Hospital acquired infections
4. Laboratory diagnosis of HIV/AIDS
5. General properties of viruses
6. Autoclave

SHORT ANSWERS

5 x 3 = 15 Marks

7. What is cell mediated immunity
8. Prophylaxis of Polio
9. List four organisms causing gastroenteritis
10. List four opportunistic infections
11. Name three antifungal agents



Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – 07-Jul-2022

Time: Three Hours

Max. Marks: 80 Marks

PHARMACOLOGY (RS3 & RS4) Q.P. CODE: 2710

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

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Classify hypolipidemic agents. Write the actions, uses and adverse effects of statins.
2. Classify drugs used in peptic ulcer. Write the mechanism of action, uses and adverse effects of Ranitidine.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

3. Drug dependence.
4. Centrally acting skeletal muscle relaxants.
5. Various routes of drug administration.
6. Classification of antihypertensive drugs.
7. Atropine.
8. Cox – 2 inhibitors.
9. Prokinetic agents.
10. Newer benzodiazepines.
11. Labetolol.
12. Sodium nitroprusside.



SHORT ANSWERS

10 x 3 = 30 Marks

13. Mention two mineralocorticoids.
14. Mention two uses of phenytoin.
15. Define tachyphylaxis. Give two examples.
16. Digoxin.
17. List two drugs used in the treatment of anxiety.
18. List two drugs used in the treatment of drug induced parkinsonism.
19. List four adverse effects of glucocorticoids
20. List two drugs used in the treatment of diarrhea.
21. Mention two cardio selective beta blockers.
22. Frusemide.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – 07-Jul-2022

Time: Three Hours

Max. Marks: 80 Marks

PHARMACOLOGY - (RS-5)

Q.P. CODE: 2739

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

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Classify antianginal drugs. Explain the pharmacological actions, adverse effects and uses of Nitrates.
2. Classify antiparkinsonian drugs. Write the pharmacological actions, adverse and drug interactions of Levodopa.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

3. Pre-anaesthetic medication.
4. Oral anticoagulants.
5. Drug therapy of wide-angle glaucoma.
6. Classify Non-steroidal anti-inflammatory drugs.
7. Indication and adverse effects of Morphine.
8. Drugs used in motion sickness.
9. Salbutamol.
10. Drugs used in Myasthenia gravis.
11. Classify Antihypertensive drugs.
12. Metoclopramide.



SHORT ANSWERS

10 x 3 = 30 Marks

13. Define first and zero order kinetics with one example each.
14. Mention two uses and two adverse effects of immunosuppressants.
15. List four drugs used in peptic ulcer.
16. Mention two uses and two adverse effects of Furosemide.
17. Name any four oral hypoglycaemic agents and its adverse effects.
18. Name four drugs used in Rheumatoid Arthritis.
19. Name two parenteral iron preparations of two uses.
20. What is First pass metabolism. How does it affect the bioavailability of a drug?
21. Mention two uses and two adverse effects of Succinylcholine.
22. Rational for using physostigmine in atropine poisoning.

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.P.T Degree Examination – 11-Jul-2022

Time: Three Hours

Max. Marks: 100 Marks

EXERCISE THERAPY (RS5)

Q.P. CODE: 2740

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

LONG ESSAYS (Second Question Choice)

2 x 10 = 20 Marks

1. Describe classification of massage and explain two techniques of massage in detail.
2. Explain Neuro physiology of balance.

OR

Explain Tests for examination of incoordination.

SHORT ESSAYS (Question No 3 & 12 choice)

10 x 5 = 50 Marks

3. Describe the method of measurement for prescription of axillary crutches.

OR

Describe technique of girth measurement for lower limb.

4. Delorme's and Mac Queens technique of strengthening
5. Explain types of muscle work.
6. Explain positions derived from standing.
7. Describe advantages and disadvantages of group exercises.
8. Explain the methods of PNF stretching.
9. Describe principles of passive movements.
10. Describe principles of postural re-education.
11. What are the effects and uses of free exercises.
12. Mention the indications and limitation of manual muscle testing.

OR

Describe different methods of stretching.

SHORT ANSWERS

10 x 3 = 30 Marks

13. What is Four-point gait?
14. Define PNF.
15. What are the grades of manual muscle testing?
16. What is Contract relax technique?
17. Write contraindications of massage.
18. Define eccentric contraction.
19. What is motor unit?
20. What is active posture?
21. What is timing for emphasis?
22. Describe in short Modified axial suspension.



Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.P.T Degree Examination – 13-Jul-2022

Time: Three Hours

Max. Marks: 100 Marks

ELECTROTHERAPY (RS-5)

Q.P. CODE: 2741

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

LONG ESSAYS (Second Question choice)

2 x 10 = 20 Marks

1. Explain the physiological effects of faradism under pressure with indications and contraindications
2. Define pain, explain pain gate control theory in detail

OR

Explain the physiological effects of interferential therapy currents, add a note on its indications and contraindications

SHORT ESSAYS (Question No.3 & 12 choice)

10 x 5 = 50 Marks

3. Explain the physiological and therapeutic effects of paraffin wax therapy

OR

Write a note on importance of evaluation and checking apparatus in prevention of burns

4. Explain the indications and contraindications Faradic foot bath
5. Explain the physiological effects of TENS
6. Explain the characteristic of SD curve
7. Explain the methods of application of SWD
8. Explain the indications and contraindications of microwave diathermy
9. Write a note on Biofeedback.
10. Describe the methods of application of UVR
11. Describe the methods of application of ultrasound therapy
12. Explain the principles of application of contrast bath

OR

Explain therapeutic uses and contraindication of Hydro Collator packs

SHORT ANSWERS

10 x 3 = 30 Marks

13. Define potential difference and EMF
14. State Ohms' law
15. List four safety precautions taken in electrotherapy department
16. Define ionization and list its uses in physiotherapy
17. Define faradic current with neat diagram
18. Define motor point
19. What is accommodation? Mention two applications
20. What is beat frequency in IFT?
21. Mention the spacing techniques in SWD
22. Define Lewis hunting reaction

