

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - 16-Jul-2021

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 necrosis. Mention types of necrosis. Add a note on dry gangrene
2. Define atherosclerosis. Discuss aetiopathogenesis and fate of thrombus

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

3. Phagocytosis
4. Chemical mediators of inflammation
5. Ghon's complex
6. Atrophy

SHORT ANSWERS

5 x 3 = 15 Marks

7. Neutropenia
8. Peripheral Neuritis
9. Exudate fluid
10. Jaundice
11. Rickets



**NAVODAYA
COLLEGE OF
PHYSIOTHERAPY**

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.P.T. Degree Examination - 16-Jul-2021

Time: Three Hours

Max. Marks: 40 Marks

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. Classify mycobacteria. Explain pathogenesis and laboratory diagnosis of pulmonary tuberculosis. Add a note on RNTCP
2. Enumerate viruses causing hepatitis. Describe the pathogenesis and laboratory diagnosis of Hepatitis-B virus. Add a note on its prophylaxis

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

3. Laboratory diagnosis of sexually transmitted diseases
4. Bacterial capsule
5. Acquired immunity
6. Hot air oven

SHORT ANSWERS

5 x 3 = 15 Marks

7. DPT Vaccine
8. Koch's postulates
9. Name two selective media and two enriched media
10. Quellung's reaction
11. Name four organisms causing urinary tract infections



**NAVODAYA
COLLEGE OF
PHYSIOTHERAPY**

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.P.T Degree Examination - 16-Jul-2021

Time: 3 Hours

Max. Marks: 40 Marks

PATHOLOGY - (RS-5)

Q.P. Code: 2737

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

(Note : Both OP 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 wound healing by Primary and Secondary union.
2. Explain the clinical features and diagnosis and Rheumatic Heart Disease.

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

3. Describe Alcoholic Liver disease.
4. Write about etiopathogenesis of Tubercular osteomyelitis.
5. Discuss grading of tumors and various modes of spread of malignant tumors.
6. Discuss types of Odema.

SHORT ANSWERS

5 x 3 = 15 Marks

7. Name three Mendel's law of inheritance.
8. Enumerate three functions of Platelets.
9. Describe Ghon's complex.
10. Describe clinical features of Gastric Ulcer.
11. Mention four CSF findings of viral meningitis.



Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.P.T. Degree Examination – 16-Jul-2021

Time: 3 Hours

Max. Marks: 40 Marks

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 the terms sterilization and disinfection. Classify the various methods of sterilization. Write in detail about Autoclave.
2. Discuss the pathogenesis, laboratory diagnosis and prophylaxis of enteric fever

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

3. Sexually transmitted disease
4. Antifungal agents
5. Laboratory diagnosis of hepatitis B virus
6. Universal precautions

SHORT ANSWERS

5 x 3 = 15 Marks

7. Name four opportunistic infections in AIDS patients
8. Nagler's reaction
9. Draw a labelled diagram of microfilaria
10. Montoux test
11. Enriched media with examples



**NAVODAYA
COLLEGE OF
PHYSIOTHERAPY**

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – 19-Jul-2021

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 Beta Blockers. Write about cardioselective Beta Blockers.
2. Classify skeletal Muscle relaxants. Write briefly on the mechanism of action of centrally active skeletal muscle relaxants and their clinical uses.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

3. Thiazide diuretics uses and side effects.
4. Side effects of Glucocorticoids and their uses.
5. Biguanide antidiabetic drugs.
6. Aceclofenac.
7. Anti platelet drugs.
8. Irritant Purgatives.
9. Diphenyl Hydantion.
10. Merits and demerits of IV drug administration.
11. Tri Cyclic Anti Depressants.
12. Antidiarrheal drugs.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Mention 2 uses of Aspirin and explain why.
14. Give two examples for Drug Synergism.
15. Tetratogenecity.
16. Idiosyncrasy.
17. Mention the uses of Chlorpromazine.
18. Advantages of Sub Lingual route of Drug Administration.
19. CILOSTAZOL- Mechanism of action and uses.
20. Mention two Alpha 1 blockers.
21. Uses of Physostigmine.
22. Pantoprazole.



NAVODAYA
COLLEGE OF
PHYSIOTHERAPY

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.P.T. Degree Examination – 19-Jul-2021

Time: Three Hours

Max. Marks: 80 Marks

PHARMACOLOGY (RS5)

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. Explain in detail the pharmacotherapy of hypertension.
2. Discuss the management of bronchial asthma.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

3. Glucocorticoids.
4. Rheumatoid arthritis.
5. Diuretics in edema
6. Nitrates.
7. Diclofenac sodium, mechanism of action, uses and side effects.
8. Heparin.
9. Classify β -agonists.
10. Central acting muscle relaxants.
11. Anticonvulsants.
12. What is peptic ulcer and treatment?

SHORT ANSWERS

10 x 3 = 30 Marks

13. Synergism.
14. Why carbidopa is given along with levodopa.
15. Merits and demerits of I V route of administration.
16. Write any three interactions with NSAID's.
17. Insulin preparations.
18. Write two examples of anti-emetic drugs and their uses.
19. One use and adverse effect of Aspirin.
20. Write three drugs used in treatment of Diarrhea.
21. Uses and side effects of metformin.
22. What is DMARD's? give two examples.



NAVODAYA
COLLEGE OF
PHYSIOTHERAPY

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – 23-Jul-2021

Time: Three Hours

Max. Marks: 100 Marks

EXERCISE THERAPY (RS3 & RS4)

Q.P. CODE: 2711

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 in detail about physiological & therapeutic effects of massage.
2. Describe physiology, indications, contraindications & precautions of stretching.

OR

Write an essay on different types of postural abnormalities & add a note on postural analysis.

SHORT ESSAYS (Question No 3 & 12 choice)

10 x 5 = 50 Marks

3. Techniques of facilitation.
4. Effects of joint mobilization.
5. Advantages of group exercises.
6. Treatment technique for impaired balance.
7. Progressive relaxation techniques.
8. PNF for lower limb.
9. Indications and contraindications of massage.
10. Pulmonary function test.
11. Merits and demerits of hydrotherapy.
12. Principles of coordination exercise.

OR

Active assisted exercise.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Types of stretching.
14. Mac queens method of Progressive Resisted Exercises.
15. Types of Walking aids.
16. Effects of mobilization on joints.
17. Benefits of suspension therapy.
18. Principles of free exercises.
19. Indications of functional Re-Education.
20. Types of massage manipulation.
21. Indications of hydrotherapy.
22. Principles of asanas.



NAVODAYA
COLLEGE OF
PHYSIOTHERAPY

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.P.T Degree Examination – 23-Jul-2021

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. Write an essay on Aerobic exercises.
2. Define massage. Explain the physiological and therapeutic effects of massage.

OR

What are the principles and grades of mobilization? Explain the techniques of mobilization for shoulder joint.

SHORT ESSAYS (Question No 3 & 12 choice)

10 x 5 = 50 Marks

3. Explain the limb length measurement in detail.

OR

Explain the types of suspension therapy.

4. Explain the respiratory adaptations to exercise training.
5. What are the principles and techniques of Hydrotherapy?
6. Describe the state and any two dynamic power testing.
7. Define inco-ordination. What are the non-equilibrium tests of co-ordination?
8. Write a note on pulmonary function tests.
9. Explain the technique of strengthening of Hip flexors from grade 1 to grade 3.
10. List the types of walking aids and its uses.
11. Write a note on Mitchel's technique of relaxation.
12. Describe principles and benefits of Asanas.

OR

Explain advantages and disadvantages of group exercises.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Define recruitment of motor units.
14. Define 10 RM.
15. Define work and endurance.
16. Differentiate between contracture and tightness
17. Give two examples each for open chain and closed chain exercises.
18. What is cadence?
19. Name two uses of gutter crutch
20. What are Free exercises?
21. Name two types of resisted exercises
22. Name two therapeutic effects of exercise in water



**NAVODAYA
COLLEGE OF
PHYSIOTHERAPY**

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – 26-Jul-2021

Time: Three Hours

Max. Marks: 100 Marks

ELECTROTHERAPY (RS3 & RS4) Q.P. CODE: 2712

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. Define high frequency current. Describe principles and production of SWD. Add a note on methods of application of SWD.
2. Define pain. Describe the physiology of pain and explain modulation of pain with the help of TENS.

OR

Define UVR. Describe different methods of UVR application. Add a note on indications and contraindications of the same.

SHORT ESSAYS (Question No 3 & 12 choice)

10 x 5 = 50 Marks

3. Explain proforma for stimulating facial nerve.

OR

Explain indications and contraindications of whirl pool bath.

4. What is Russian current and explain its uses in physiotherapy.
5. Describe the instrumentation for neuromuscular electrical stimulation.
6. Explain physiological and therapeutic effects of faradic currents.
7. Describe principles and application of Ultra Sound.
8. Micro currents.
9. Explain properties of LASER.
10. Explain procedure of Iontophoresis in the treatment of hyperhidrosis.
11. Discuss physiological and therapeutic effects of IRR.
12. Define IFT. Explain its indications and contraindications.

OR

Difference between high frequency and low frequency currents.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Phonophoresis.
14. Methods of application of paraffin wax.
15. Electromagnetic induction.
16. What is duty cycle and its importance.
17. Difference between antidromic and orthodromic conduction.
18. Effects of cryotherapy.
19. Galvanism.
20. Biofeedback.
21. Moist heat.
22. Uses of contrast bath.



NAVODAYA
COLLEGE OF
PHYSIOTHERAPY

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.P.T Degree Examination – 26-Jul-2021

Time: Three Hours

Max. Marks: 100 Marks

ELECTROTHERAPY (RS5)

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. Describe the production of MWD. Mention the physiological and therapeutic effects of MWD.
2. Mention the methods of heat production by SWD. Mention the dosage parameters, indications and contraindications of SWD.

OR

Mention the indications, contraindications and dosage of ultrasound.

SHORT ESSAYS (Question No.3 & 12 choice)

10 x 5 = 50 Marks

3. What are the types of UVR? Mention the different generators in UVR production.

OR

Explain Physiological effects of rise in temperature.

4. Explain cathodal and anodal galvanism.
5. Describe faradic foot bath.
6. Explain physiological effects of faradic current.
7. Mention the prevention and management of burns in electrotherapy.
8. Explain types of TENS.
9. Describe the principles of EMG.
10. Explain the production of IFT.
11. Describe physiological effects and contraindications of IRR.
12. Mention the types and methods of application of LASER.

OR

Describe the brief whirlpool bath.

SHORT ANSWERS

10 x 3 = 30 Marks

13. What is fuse?
14. Define Rheobase and Chronaxie.
15. Define Accommodation.
16. Define Motor point.
17. List the types of electrodes used in low frequency.
18. What is latent heat?
19. Define Joule's law.
20. Define action potential.
21. Name dangers of cryotherapy.
22. What is standing wave?



**NAVODAYA
COLLEGE OF
PHYSIOTHERAPY**