Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - 16-May-2023

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 wound healing. What are the differences between primary and secondary wound healing? Discuss the factors affecting wound healing

2. Discuss alcoholic liver diseases. Mention the causes of Cirrhosis of liver

SHORT ESSAYS (Answer any Three) **3 x 5 = 15 Marks**

3. Hyperplasia
4. Atherosclerosis
5. Rheumatoid arthritis
6. Pathologic clacification

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Fate of thrombus
8. Causes of goiter
9. Pancytopenia
10. Dysplasia
11. Monckeberg's medical calcification

II Year B.P.T. Degree Examination - 16-May-2023

Time: 3 Hours **Max. Marks: 40 Marks**

MICROBIOLOGY (RS3 & RS4)

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 Autoclave.
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. Candidiasis.
4. Prophylaxis against clostridium tetani/tetanus.
5. Mechanisms of innate immunity.
6. ELISA.

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Name four organisms causing respiratory tract infections.
8. Black water fever.
9. Name any four organisms causing enteric infections.
10. Mention two differences between exotoxins and Endotoxins.
11. Define zoonosis. Give two examples.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – 18-May-2023

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. Enumerate the routes of drug administrations. Write the advantages and disadvantages of intravenous route
2. Classify anti epileptic drugs. Write the pharmacological actions, therapeutic uses, adverse effects of phenytoin sodium.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

3. Management of rheumatoid arthritis.
4. Chlorpromazine
5. ACE inhibitors.
6. Drug dependence
7. Central acting muscle relaxants.
8. Advantages of Benzodiazepines over barbiturates.
9. Diuretics
10. Salbutamol.
11. Enumerate glucocorticoids and their uses.
12. NSAID's

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Uses of propranolol.
14. Enumerate vasodilators used in congestive cardiac failure
15. Mention various routes of administration of nitrates.
16. Name two purgatives and their uses.
17. What is postural hypotension? Mention one drug which causes postural hypotension.
18. Name two alpha blockers and write two uses.
19. Name two drugs used in dementia.
20. Name two centrally acting antihypertensive agents.
21. What is bioavailability? Which route of administration is having highest bioavailability?
22. Anticoagulants.

II Year B.P.T. Degree Examination - 20-May-2023

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. Write in detail about Passive Movements.
2. Write in detail about Group Exercises.

   OR

   Write in detail about PNF.

SHORT ESSAYS (Question No 3 & 12 choice) **10 x 5 = 50 Marks**

3. Explain the muscle work in Hanging position.

   OR

   Write in brief about Relaxation Exercises.
4. Principles of Resisted Exercises.
5. Explain types and indication of Massage.
6. Explain Tapotment manipulation.
7. Explain Isokinetics.
8. Principles of Controlled Sustained Stretching.
9. Types and Contraindication of Suspension Therapy.
10. Define Stretching and its effects.
11. Explain Mulligan Manipulation.
12. Explain Balance Re-training.

    OR

    Explain Coordination and In-coordination.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Gravity.
14. Base of support.
15. Vertical Axis.
16. What is third order lever with an example from the human body?

17. Uses of group therapy.
18. Contracture.
19. Principles of Maitland's mobilization.
20. Uses of Pelvic Bridging.
21. Free Exercise for Neck.
22. Muscle setting exercises.

II Year B.P.T. Degree Examination – 22-May-2023

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. Describe the mechanism of electrical shock and the safety precautions used and methods to prevent shock.
2. Explain the techniques of applications of cryotherapy and its contra indications.

   OR

   What is Brownian movement? Explain the technique of applying iontophoresis with appropriate ion for scar healing.

SHORT ESSAYS (Question No 3 & 12 choice) **10 x 5 = 50 Marks**

3. Deltoid inhibition stimulation.

   OR

   Physiology of nerve impulse propagation.
4. Eddy currents and its implications.
5. Strength duration curve test.
6. Use of UVR in wound healing.
7. Use of IFT in stress incontinence.
8. Physiological effects of LASER
9. Effects of TENS in pain management.
10. Sinusoidal currents.
11. Instrumentation in NMES.
12. EMG biofeedback.

    OR

    Write a note on Contrast bath.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Cold urticaria.
14. Monochromaticity.
15. Dosage of UVR in psoriasis.
16. Diadynamic current.
17. Indications for cyclotherm.
18. Uses of pulsed Short-wave diathermy.
19. Standing waves.
20. Contra indications for whirlpool bath.
21. Add a note on two levels of pain modulation.
22. Effects of paraffin wax therapy.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – 16-May-2023

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 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. Describe etiology and pathogenesis of Cardiac Edema.
2. Explain the etiology, pathogenesis and clinical features in Chronic obstructive pulmonary diseases.

SHORT ESSAYS (Answer any Three) **3 x 5 = 15 Marks**

3. Discuss mechanism of cell injury.
4. Discuss handling of infected material and health education in AIDS.
5. Differentiate benign and malignant tumors.
6. Describe the differences between Gout and Pseudogout.

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Name four body Pigments.
8. Name four types of Embolism.
9. Name four autosomal dominant disorders.
10. Write about Hypertrophy.
11. Enumerate eight causes of Lymphadenopathy.

II Year B.P.T. Degree Examination – 16-May-2023

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 and classify Hypersensitivity. Give a detailed account of type I Hypersensitivity
2. Enumerate the bacteria causing urinary tract infections. Write in detail about the laboratory diagnosis of urinary tract infections

SHORT ESSAYS (Answer any Three) **3 x 5 = 15 Marks**

3. Bacterial spore
4. Autoclave
5. Structure and function of IgM
6. Gonorrhea

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Name any two selective media
8. Classification of bacteria based on oxygen requirement
9. Interferons
10. Name any two antifungal agents
11. Name any two DNA viruses

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – 18-May-2023

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. Classify NSAIDs (Non steroidal anti-inflammatory drugs). Write the therapeutic uses and adverse effects and contraindications of aspirin.
2. Classify antihypertensive drugs. Explain mechanism of action, therapeutic uses and adverse effects of angiotensin converting enzyme inhibitors.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

3. Drug synergism.
4. Drug therapy of status epilepticus.
5. Omeprazole.
6. Sulphonylureas.
7. Mention uses and adverse effects of benzodiazepines.
8. Diuretics.
9. Centrally acting skeletal muscle relaxants.
10. Statins.
11. Atypical antidepressants.
12. Glucocorticoids.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Define bioavailability. Mention two factors affecting bioavailability.
14. Why non-selective beta blockers are contraindicated in bronchial asthma?
15. Mention four antiarrhythmic drugs.
16. Mention four uses of atropine.
17. Mention four uses of adrenaline.
18. Write mechanism of action and therapeutic uses of prednisone.
19. List four drugs known to cause postural hypotension.
20. List two antiplatelets agents and their therapeutic uses.
21. Anti-emetic drugs with four examples.
22. Why carbidopa is given along with levodopa.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – 20-May-2023

Time: Three Hours **Max. Marks: 100**

EXERCISE THERAPY (RS-5)

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. Define Proprioceptive Neuromuscular Facilitation (PNF). Explain in detail about the techniques of facilitation in PNF. List the components of PNF
2. Define Pulmonary Function Test (PFT). List the types of PFT and add note on lung volumes and capacities

   OR

   List the causes for inco-ordination. Add note on the anatomy and physiology of cerebellum with its pathway

SHORT ESSAYS (Question No 3 & 12 choice) **10 x 5 = 50 Marks**

3. Acute and chronic physiological responses to exercise training

   OR

   List the basic energy system. Add note on fatigue and its causes
4. Explain two static and dynamic power tests
5. Classify passive movements. Add note on principles, effects and uses of passive movements
6. Explain about the functional re-education for improving movement and stability at floor level
7. Grades of MMT. Add note on MMT for Biceps Brachii
8. Define VO2 Max. Add note on FITT principle
9. **Define and classify massage. Briefly explain the physiological effects of massage.**
10. Classify muscle fibers. Add note on muscle fiber adaptation on endurance training
11. List the types of Pranayamas. Add note on principles and benefits or Pranayamas
12. Explain about pre crutch training. Add note on axillary crutch measurement

    OR

    Determinants and physiological effects of stretching

SHORT ANSWERS **10 x 3 = 30 Marks**

13. List the anthropometric measurements
14. De Lormes regimen
15. Describe the grades of mobilization
16. Specificity principle
17. Brief Resisted Isometric Exercises (BRIME)
18. Buoyancy and hydrostatic pressure
19. Concave-convex rule with examples
20. List any three endurance tests
21. Components of balance
22. Define good posture and list the factors affecting posture

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – 22-Nov-2023

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. Describe the morphology, pathogenicity and laboratory diagnosis of Streptococcus Pneumoniae.

2. Define and classify sterilization. Write in detail dry meat methods of sterilization.

SHORT ESSAYS (Answer any Three) **3 x 5 = 15 Marks**

3. Normal flora of human body.
4. Cultivation of virus.
5. IgG.
6. Prophylaxis of tetanus.

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Name the diarrheagenic E.coli.
8. Microfilaria.
9. Determinants of antigenicity.
10. Name three systemic fungal infections.
11. Name three DNA viruses.

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II Year B.P.T Degree Examination – 22-May-2023

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. Define infra red radiation and its types. Write about physiological effect, therapeutic effect, contraindication and treatment technique of IRR.

2. Define Lewis hunting reaction. Therapeutic effect and contra indication and method of application of cryotherapy.
   OR
   Define SD curve. Write a note on indication, contraindication and limitation of SD curve.

SHORT ESSAYS (Question No.3 & 12 choice) **10 x 5 = 50 Marks**

3. Indication and contraindication of Microwave diathermy.
   OR
   Method of application of UVR.

4. Define FG TEST.
5. Diadynamic current.
6. Explain Cathodal Galvanism.
7. Define magnetic stimulation. Explain indication of magnetic stimulation.
8. Define Cyclotherm. Explain its therapeutic effects.
9. Define Fluidotherapy. Explain the method of application.

10. Method of application of Laser.
11. Ions used in Iontoporesis for hyperhidrosis.
12. Method of application of contrast bath.

OR

Explain physiological and therapeutic effects of IFT.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Fuse.
14. Coupling media.
15. Accommodation.
16. Define radiant heat.
17. PUVA.
18. Define action potential.
19. Beat frequency.
20. Types of TENS.
21. Micro current.
22. Monochromaticity.

II Year B.P.T. Degree Examination - 24-May-2023

Time: Three Hours **Max. Marks: 80 Marks**

RESEARCH METHODOLOGY AND BIOSTATISTICS
(RS3 & RS4)
Q.P. CODE: 2713

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. Define biostatistics. Explain significance of biostatistics. Add a note on central tendency.
2. Mention different types of research design. Explain experimental research design.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

3. Motivation in research.
4. Problems encountered by researchers in India.
5. Types of variables.
6. Scales of measurement.
7. Sampling techniques.
8. Research methods Vs methodology.
9. Steps involved in defining research problem.
10. Interview method.
11. Classification.
12. ANOVA.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Sampling frame.
14. Empirical research.
15. Types of hypothesis.
16. Applied research.
17. Standard deviation.
18. Kurtosis.
19. Pie diagram.
20. Stratified sampling.
21. Chi-Square test.
22. Histogram.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – 22-Nov-2023

Time: 3 Hours **Max. Marks: 40**

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 healing. Describe the healing of fractures in long bones
2. Define and classify shock. Describe the pathogenesis, clinical features and stages of hypovolumic shock

SHORT ESSAYS (Answer any Three) **3 x 5 = 15 Marks**

3. Discuss Down's syndrome
4. Sequence of events in phagocytosis
5. Discuss necrosis and its types
6. Discuss grades of tumour and various modes of spread of malignant tumours

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Neutrophilia
8. Describe clinical features of gastric ulcer
9. Mention the events of acute inflammation
10. Mention four secondary causes of diabetes mellitus
11. Enumerate the skeletal changes in rickets

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II Year B.P.T. Degree Examination – 16-May-2023

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 and classify Hypersensitivity. Give a detailed account of type I Hypersensitivity
2. Enumerate the bacteria causing urinary tract infections. Write in detail about the laboratory diagnosis of urinary tract infections

SHORT ESSAYS (Answer any Three) **3 x 5 = 15 Marks**

3. Bacterial spore
4. Autoclave
5. Structure and function of IgM
6. Gonorrhea

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Name any two selective media
8. Classification of bacteria based on oxygen requirement
9. Interferons

10. Name any two antifungal agents
11. Name any two DNA viruses

II Year B.P.T. Degree Examination – 24-Nov-2023

Time: Three Hours **Max. Marks: 80**

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 Beta blockers. Mention MOA uses and adverse effects of propranolol
2. Explain various routes of drug administration with advantages and disadvantages of intravenous and oral route

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

3. Diuretics
4. OP poisoning
5. Proton pump inhibitors
6. Mast cell stabilizers
7. Status epilepticus
8. Nifedipine
9. Nitrates
10. Aspirin
11. Drugs used in motion sickness
12. Insulin

SHORT ANSWERS **10 x 3 = 30 Marks**

13. One use and adverse effect of drugs used in Parkinsonism
14. Name any two uses and adverse effects of digoxin
15. What is first pass metabolism? How does it affect the bioavailability of a drug?
16. One use and one adverse effect of metformin
17. List four drugs used in bronchial asthma
18. Rational for using physostigmine in atropine poisoning
19. Name any two depolarising muscle relaxants and its uses
20. Three drugs that causes teratogenicity
21. What is postural hypotension? Mention two drugs which cause postural hypotension
22. Rational for combining adrenaline with local anaesthetics

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II Year B.P.T Degree Examination – 27-Nov-2023

Time: Three Hours **Max. Marks: 100**

EXERCISE THERAPY (RS-5)

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. List the fundamental positions. Write in detail on muscle work in standing position.
2. Define joint mobilization. Explain the principles of joint mobilization and mobilization technique for shoulder joint.

   OR

   Define Co-ordination. Principles of co-ordination exercise. Test for co-ordination.

SHORT ESSAYS (Question No 3 & 12 choice) **10 x 5 = 50 Marks**

3. Explain the physiology of balance.

OR

What are the physiological changes taking place with aerobic training.

4. Define balance. Write about the types of balance retraining.
5. Define muscle re-education. List out the indications of re-education of muscles.
6. Explain the physical properties of water helps in the working of hydrotherapy.
7. Compare Delormes and oxford regimens of progressive resisted exercise.
8. Principles of relaxation.
9. Contract relax/Hold relax.
10. Define posture. Explain how the equilibrium of posture is maintained.
11. Explain principles, indications and contraindications of massage techniques.
12. Effect of therapeutic exercise.

OR

Muscle work in squatting position.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Principles of passive movement.
14. SAID principles.
15. Pulleys and its types.
16. Factors influencing equilibrium.
17. Components of PNF.
18. Mulligan concept.
19. All or none law.
20. Double joint muscle.
21. Close kinematic chain exercise.
22. Physiological changes to muscle stretch.

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II Year B.P.T. Degree Examination – 27-Nov-2023

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. Define Aerobics exercises. Explain the physiological responses of Aerobic exercises and methods of evaluation of aerobic capacity.
2. Define relaxation. Write about methods, techniques and uses of relaxation.

OR

Define Hydro therapy. Write about the properties of water, Effects and uses, merits and demerits of Hydrotherapy.

SHORT ESSAYS (Question No 3 & 12 choice) **10 x 5 = 50 Marks**

3. What are different types of Resisted exercises?

OR

Write about Principles and uses of Manual muscle testing.

4. Explain tests for speed and endurance in athletes.
5. Write about types of Limb length measurements and its importance.
6. Define Balance. Write a note on causes of balance impairment and balance training.
7. Write about principles, types and uses of Goniometry.
8. Explain the types of Passive movements.
9. Write about indications and contraindications of free exercises.
10. Write in brief about Isometric exercises and its effects with 2 examples.
11. Define Posture and write about principles of Posture re-education.
12. Explain Contract-relax and Hold-relax, its effects with 2 examples.

OR

Explain the different types of Suspension therapy.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Dynamic power test.

14. Tests of co-ordination in Equilibrium position.
15. Angle of Pelvic Inclination and its Importance
16. Effects of Active assisted exercises.
17. Open and closed chain exercises.
18. De lormes technique.
19. Uses of Rhythmic Initiation.
20. Effects of Suryanamaskara.
21. Benefits of Mat activities.
22. Mulligans technique.

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II Year B.P.T. Degree Examination - 29-Nov-2023

Time: Three Hours **Max. Marks: 100**

ELECTROTHERAPY
(RS-3 & RS-4)
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 Laser. Explain properties, classification and method of application of Laser
2. Define SWD. Describe in detail types of SWD, methods of application, indication and contraindication

OR

Define IFT, methods of application, indication and contra indication

SHORT ESSAYS (Question No 3 & 12 choice) **10 x 5 = 50 Marks**

3. Indication and contraindication of microwave diathermy

OR

Method of application of UVR

4. Define FG TEST
5. Diadynamic current
6. Explain Cathodal Galvanism
7. Define magnetic stimulation. Explain indication of magnetic stimulation
8. Define Cyclotherm. Explain its therapeutic effects
9. Define fluidotherapy. Explain the method of application
10. Method of application of Laser
11. Ions used in Iontophoresis for hyperhidrosis
12. Method of application of contrast bath

OR

Define Shock. Explain methods for prevent shock

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Fuse
14. Effective Radiating Area (ERA)
15. Accommodation
16. Define radiant heat
17. PUVA
18. Define action potential
19. Beat frequency
20. Melting point of paraffin wax
21. Rheobase
22. Electrode placement in IFT

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – 29-Nov-2023

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 moist heat therapy under following headings: equipment, principle, method of application, physiological effects, therapeutic effects, procedure, indications and contraindications.

2. Explain faradic current, technique of application, modification, physiological and therapeutic effects of faradic current.
   OR
   Define UVR, types of UVR, UVR generators. Add a note on PUVA apparatus and its usage.

SHORT ESSAYS (Question No.3 & 12 choice) **10 x 5 = 50 Marks**

3. Define electric shock. Add a note on precautions and treatment of shock.
   OR
   Define transformer and its functions.
4. SD curve.
5. Cyclotherm.
6. Electromagnetic spectrum.
7. Method of application of paraffin wax therapy.
8. Cryotherapy techniques of application.
9. Contrast bath.
10. List the theories of pain. Explain in details about pain gate theory.
11. Parameters of UST.
12. Properties and techniques of application of LASER.
    OR
    Explain Phonophoresis in detail; methods, dosage and drug used.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Ohms law and its application.
14. Ionization.
15. Electrode tissue interface.
16. Biofeedback.
17. Magnetic stimulation.
18. Fuse.
19. Diadynamic currents and its types.
20. Burst TENS.
21. PEME.
22. HVPGS.

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