Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination - 26-May-2025

Time: Three Hours Max. Marks: 100 Marks

ELECTROTHERAPY (RS-5) Q.P. CODE: 2741

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

LONG ESSAYS (Second Question choice)

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

- Define ultrasound therapy. Explain in detail about the thermal and non-thermal effects of ultrasound. Add a note on dangers of ultrasound.
- Explain wax therapy. Indications, contraindications and methods of application.

Define iontophoresis. Add a note on principles and iontophoresis and contraindications.

SHORT ESSAYS (Question No.3 & 12 choice)

 $10 \times 5 = 50 \text{ Marks}$

3. Microwave diathermy.

OR

Define transformer and its functions.

- Principles of production of laser.
- 5. Difference between conductor and insulator.
- 6. Fluidotherapy.
- Contrast bath.
- 8. Electromagnetic spectrum.
- 9. Principles of NMES.
- 10. Explain pain gate control theory in detail.
- 11. EMG.
- 12. Define fuse, its types and principles.

OR

Add a note on FG test.

SHORT ANSWERS $10 \times 3 = 30 \text{ Marks}$

- 13. Ohm's law and its application in physiotherapy.
- 14. Micro and Macro shock.
- 15. Lewis Huntington's phenomenon.
- 16. Electric shock.
- 17. Phonophoresis.
- 18. Piezoelectric effect and crystals in UST.
- 19. Duty cycle.
- 20. Motor unit with neat labelled diagram and motor point.
- 21. Half value depth and coupling media.
- 22. Name two neurotransmitters of peptide and amino acid class (Excitatory and Inhibitory actions).

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination - 23-May-2025

Time: Three Hours Max. Marks: 100 Marks

Q.P. CODE: 2740

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

LONG ESSAYS (Second Question Choice)

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

- 1. Define massage. Classify massage with indication and contraindications.
- 2. Explain the tests of co-ordination. Describe the frenkles exercise program for lower limbs in co-ordination.

OR

List the types of posture. Explain the principles of postural re-education.

SHORT ESSAYS (Question No 3 & 12 choice)

 $10 \times 5 = 50 \text{ Marks}$

3. Write a note on grades of mobilization.

OR

Describe the testing and stretching for quadriceps tightness.

- 4. Explain the procedure of measurement for an axillary crutch.
- 5. Define suspension therapy. Explain the types suspension.
- 6. Explain the measurement method for true length.
- 7. Explain the method of doing effleurage.
- 8. Describe any two techniques of Pranayama.
- 9. Describe the elements in an asana.
- 10. Explain with a diagram vertical suspension for knee joint.
- 11. Describe the MMT grading for deltoid muscle from grade 2 grade 5.
- 12. Give the principles of hydrotherapy.

OR

Explain the principles of PNF technique.

SHORT ANSWERS 10 x 3 = 30 Marks

- 13. Define free exercises.
- 14. Define recruitment of motor units.
- 15. Uses of parallel bars.
- 16. What is closed chain exercise?
- 17. Define endurance.
- 18. Describe hold relax technique.
- 19. Advantages of PNF exercise.
- 20. Uses of practicing yoga.
- 21. Uses of open chain exercise.
- 22. Why do we measure muscle girth?

Rajiv Gandhi University of Health Sciences, Karnataka II Year B.P.T. Degree Examination - 19-May-2025

Time: 3 Hours Max. Marks: 40

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)

 $1 \times 10 = 10 \text{ Marks}$

- 1. Define and classify sterilization. Write in detail about autoclave
- 2. Describe the pathogenesis and laboratory diagnosis and prophylaxis of enteric fever

SHORT ESSAYS (Answer any Three)

 $3 \times 5 = 15 \text{ Marks}$

- 3. Laboratory diagnosis of fungal infections
- 4. Laboratory diagnosis of tetanus
- 5. Normal flora of human body
- 6. Cryptococcus neoformans pathogenicity and laboratory diagnosis

SHORT ANSWERS 5 x 3 = 15 Marks

- 7. Enriched media
- 8. Structure of HIV
- 9. Quellung reaction
- 10. Name two differential staining methods
- 11. Name any three organism causing wound infection

Rajiv Gandhi University of Health Sciences, Karnataka II Year B.P.T. Degree Examination - 19-May-2025

Time: 3 Hours Max. Marks: 40 Marks

PATHOLOGY (RS5) 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)

 $1 \times 10 = 10 \text{ Marks}$

- 1. Define inflammation. Describe causes of vascular and cellular events of acute inflammation.
- 2. Classify bone tumours and describe morphology and radiological findings of Osteogenic sarcoma.

SHORT ESSAYS (Answer any Three)

 $3 \times 5 = 15 Marks$

- 3. Klinefelter syndrome: clinical features and genetic basis.
- 4. Difference between wet and dry gangrene.
- 5. Clinical features and pathology of Rickets.
- 6. Factors influencing wound healing.

SHORT ANSWERS 5 x 3 = 15 Marks

- 7. Four common causes of Eosinophilia.
- 8. Laboratory diagnosis of myocardial infarction.
- 9. Cerebrospinal fluid findings of pyogenic meningitis.
- 10. Routes of transmission of Human Immunodeficiency Virus.
- 11. Differences between Transudate and exudate.

Rajiv Gandhi University of Health Sciences, Karnataka II Year B.P.T. Degree Examination - 21-May-2025

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)

 $1 \times 10 = 10 \text{ Marks}$

- 1. Classify anticholinergics agents. Mention the mode of action, adverse effects and uses of atropine.
- 2. Classify Neuromuscular blocking agents and describe the mechanism of action, indication and dose of Pancuronium.

SHORT ESSAYS (Answer any Eight)

 $8 \times 5 = 40 \text{ Marks}$

- 3. Oral hypoglycemic drugs
- 4. Explain various factors modifying drug response.
- 5. Proton Pump Inhibitors
- 6. Aspirin
- 7. Treatment for Gout
- 8. Bronchodilators
- 9. Diazepam
- 10. Phenytoin
- 11. Treatment for Dementia
- 12. Antihistamines

SHORT ANSWERS $10 \times 3 = 30 \text{ Marks}$

- 13. Advantages of selective COX two inhibitors over Non-selective COX inhibitors
- 14. Name any four drugs causing postural hypotension as side effect.
- 15. Name any two selective serotonin reuptake inhibitors with indication.
- 16. Name any four drugs used for treatment for Rheumatoid arthritis.
- 17. Name any four drugs used for treatment for Myasthenia Gravis.
- 18. Glucocorticoids uses and adverse effect
- 19. Metoclopramide.
- 20. Drug interaction for Non-steroidal anti-inflammatory drugs
- 21. Name any two angiotensin receptor blockers with their adverse effects.
- 22. Name any two Thrombolytics with mode of action.