

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Aug 2013

Time: 3 Hours

Max. Marks: 40 Marks

Pathology 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. Write about wound healing in detail
2. What is edema, classify and add a note on cardiac edema

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Hypersensitivity type 1 reaction
4. Syphilis
5. Investigations in hemolytic anaemia
6. Osteosarcoma
7. Carcinogens

SHORT ANSWERS

5 x 2 = 10 Marks

8. Dysplasia
9. Complications of diabetes mellitus
10. What is shock, give examples?
11. Gastritis
12. Atrophy

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Max. Marks: 40 Marks

Microbiology

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. Describe the morphology, modes of transmission and laboratory diagnosis of HIV. Add a note on universal precautions
2. *Define Pyrexia or fever of unknown origin. Discuss the laboratory diagnosis of typhoid fever*

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Acquired immunity
4. Gonorrhoea
5. Prophylaxis against tetanus
6. Microfilaria
7. Chemical methods of sterilization

SHORT ANSWERS

5 x 2 = 10 Marks

8. Koch's postulates
9. Name two selective media and two enriched media
10. Name the diarrhoeagenic Escherichia coli
11. What is an adjuvant? Give two examples
12. Name four bacteria causing urinary tract infections

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Time: Three Hours

Max. Marks: 80 Marks

PHARMACOLOGY

(RS - 3 & RS - 4)

Q.P. CODE: 2710

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. Classify antihypertensive drugs. Explain their mechanism of action
2. Discuss various factors modifying drug action with examples
3. Classify analgesic and antipyretic agents. Discuss the pharmacological actions, adverse effects and therapeutic uses of aspirin

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Explain the various uses of adrenergic drugs
5. Explain the adverse effects and uses of ACE inhibitors
6. *biotransformation*
7. Classify sedatives and hypnotics and list their therapeutic uses
8. Give the merits and demerits of intravenous route of drug administration
9. What are antithrombolytic agents? Give their clinical uses
10. Classify antiarrhythmic agents
11. Write a note on purgatives
12. Write a note on bronchodilators
13. List various insulin preparations

SHORT ANSWERS

10 x 2 = 20 Marks

14. State the uses of diuretics
15. Give the therapeutic uses of anticoagulants
16. List four adverse drug effects with examples
17. What are peripheral vascular diseases? Name two drugs to treat them
18. Mention the drugs to treat Parkinson's disease
19. Define the terms pharmacokinetics and pharmacodynamics
20. What is rheumatoid arthritis? Name two drugs used to treat it
21. What is a prodrug? Give examples
22. Give reason why L-dopa is given in combination with carbidopa
23. Write a note on lithium

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Max. Marks: 80 Marks

PHARMACOLOGY (RS & RS2)

Q.P. CODE: 2158

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. Classify Neuromuscular-blocking agents. Discuss the mechanism of action, uses and ADR of Pancuronium.
2. Classify Diuretics. Discuss the mechanism of action, uses and adverse effects of loop diuretics.
3. Classify antiepileptics. Write the MOA, uses and advantages of Na. valporate.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Angiotension converting enzyme inhibitors
5. Acute Morphine Poisoning
6. Anticholinesterase drugs
7. Dantrolene.
8. Cox-2 inhibitors
9. Non Benzodiazepine sedative hypnotics
10. Anaphylactic shock
11. Bronchodilators
12. Anabolic steroids
13. Newer insulins

SHORT ANSWERS

10 x 2 = 20 Marks

14. One use and one adverse effects of DPT vaccine
15. One use and one adverse effects of Transdermal Patches
16. One use and one adverse effects of Cetrizine
17. One use and one adverse effects of Chlorzoxazone
18. One use and one adverse effects of Sodium nitroprusside
19. One use and one adverse effects of Esmolol
20. One use and one adverse effects of Aspirin
21. One use and one adverse effects of Metformin
22. One use and one adverse effects of Nifedopine
23. One use and one adverse effects of Frusemide

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Time: Three Hours

Max. Marks: 100 Marks

EXERCISE THERAPY

(RS – 3 & RS - 4)

Q.P. CODE: 2711

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. What is Proprioceptive Neuromuscular Facilitation? Write about its principles and techniques of facilitation to improve mobility and strength.
2. Define Stretching. Explain the determinants, techniques, contraindications and effects of stretching.
3. Define Asanas and Pranayamas. Write about its principles, types and Contraindications.

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. What are Starting positions and its uses?
5. Write a note on Static and Dynamic Power tests with examples.
6. Write a note on Co-ordination tests.
7. Write about Pulmonary Function Test and its importance.
8. Write a note on Jacobsons relaxation technique.
9. What are the uses and limitations of Goniometry?
10. Define Free exercises. Write about types and uses of free exercises.
11. Define Resisted exercises. Write in brief about its principles and uses.
12. Define Functional Re-education and write a note on Mat activities.
13. Write a note on grades of Mobilisation.
14. Define Closed-chain exercise, its effects with 2 examples.
15. Write a note on Isotonic exercises.
16. What is Anthropometry and its uses?
17. Write about principles and uses of Passive movements.

SHORT ANSWERS

10 x 2 = 20 Marks

18. Endurance test
19. True limb length and its importance
20. What is Muscle tone and Postural tone?
21. Define Active movement.
22. 2 examples of isometric exercises
23. Define Open chain exercises.
24. 4 uses of Effleurage
25. Define Active and inactive postures.
26. 4 effects of Aerobic exercises
27. 2 types of Hydro Therapy techniques

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Time: Three Hours

Max. Marks: 100 Marks

THERAPEUTICS (OS, RS & RS2)

Q.P. CODE: 2161

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. What are resisted exercises? Explain the precautions for resisted exercises
2. Mat exercises
3. What are aerobic exercises? Explain the principles of aerobic exercises

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Bronchial hygiene
5. Merits and demerits of suspension therapy
6. Delorme's technique
7. Indications and contraindications of hydrotherapy
8. Principles of manual muscle testing
9. Hand muscle strengthening
10. Define postural drainage. Give its indications and contraindications
11. Frenkel's exercise
12. Walking aids
13. Classification and uses of active exercises
14. Indications and contraindications of massage
15. Setting up of therapeutic gymnasium
16. Definition and types of relaxation
17. Hold-relax technique

SHORT ANSWERS

10 x 2 = 20 Marks

18. Define endurance and its types
19. Tightness and contracture
20. Petrissage
21. Define flexibility
22. Repetition maximum
23. Muscle tone
24. What is stretching?
25. Equilibrium board
26. Pulleys
27. Functional position of hand

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Max. Marks: 100 Marks

ELECTROTHERAPY (OS, RS & RS2)

Q.P. CODE: 2162

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 physiological effects and therapeutic uses of pulsed currents
2. Describe the types, effects, merits and demerits of Ultra violet radiation
3. Discuss the traditional methods of electrodiagnosis

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Ultrasound coupling media
5. Classification of LASER
6. Half value depth in ultrasound
7. Filters in ultra violet radiation
8. Therapeutic uses of microwave diathermy
9. Gate control theory of pain
10. Contraindications for TENS
11. Technique of electrical stimulation of denervated muscles
12. Principles and advantages of Ionotophoresis
13. Indications and technique of faradic foot bath
14. Calculation of test dose in ultraviolet radiation
15. Precautions and treatment of shock
16. Effects and uses visible lights
17. Spacing in shortwave diathermy

SHORT ANSWERS

10 x 2 = 20 Marks

18. Define EMG Biofeedback
19. Neuropraxia
20. Mention any four absolute contraindications for Cryotherapy
21. Standing waves
22. Define CP module
23. Pfluger's law
24. Define High TENS
25. Accommodation of nerve
26. Define beat frequency in interferential currents
27. What is ramping of current?

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Time: Three Hours

Max. Marks: 100 Marks

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 (Answer any Two)

2 x 10 = 20 Marks

1. Describe production of Ultra sound and explain the various methods of application of this therapy. Add a note on coupling medium used.
2. Explain the production of Interferential currents; give the therapeutics and physiological effects of the same.
3. List the various tests used for electro diagnosis. Explain any 3 in detail.

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Explain about condensers used in electro therapy units.
5. What is shock? Give the precautions to be taken to avoid the same.
6. Give the types of modified Direct currents used in physiotherapy. Describe any one in detail.
7. Write in detail on cathodal galvanism.
8. *Write a note on Jacobsons relaxation technique.*
9. What is Iontophoresis? Give the importance of its use in physiotherapy.
10. Explain the benefits of using micro currents.
11. Give indications and contra indications of IRR.
12. Explain the physiological effects of TENS and give a note on the indications for its use.
13. Describe the indications for use of bio feedback.
14. Give the principles of production of LASER.
15. Explain the type of applicators used in a LASER unit and its uses.
16. Outline the benefits of hot pack unit.
17. Describe the types of methods used for cryotherapy.

SHORT ANSWERS

10 x 2 = 20 Marks

18. Use of a voltmeter in electrotherapy unit.
19. What are electrical burns?
20. Give 2 uses of diadynamic current.
21. Give 2 features of a sinusoidal current.
22. What is anodal galvanism?
23. Give 2 uses of MWD.
24. Define the term EMG.
25. Give 2 uses of a wax therapy.
26. Define Pain gate theory.
27. What is phonophoresis?

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RESEARCH METHODOLOGY & BIostatISTICS

(RS-3 & RS-4)

Q.P. CODE: 2713

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. Define research. State the basic principles and importance of research in physiotherapy practice
2. Range of movement of 10 frozen shoulder patients were 38,42,45,36,40,44,40,45,34 and 36. Compute Mean, Median and Mode
3. Explain in detail about graphical presentation of data

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Define biostatistics and discuss its importance
5. Explain the characteristics of good research design
6. Explain the assumptions and characteristics of hypothesis
7. Explain about the measurement scales
8. "Mean is a good average" – Justify
9. Explain about pie diagram
10. Basic principles of experimental design
11. Normal probability curve
12. Computer and its importance in physiotherapy research
13. Explain about Skewness and Kurtosis

SHORT ANSWERS

10 x 2 = 20 Marks

14. Mode
15. Standard deviation
16. Ordinal data
17. Simple random sampling
18. Questionnaire and Schedule
19. Null hypothesis
20. Assumptions in ANOVA
21. Qualitative research
22. Simulation research
23. Histogram
