

# Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Sep 2012

**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. What is neoplasm? Classify and write in detail
2. Write about pulmonary tuberculosis

### **SHORT ESSAYS (Answer any Four)**

**4 x 5 = 20 Marks**

3. Causes of cell injury
4. Amyloidosis
5. Osteomyelitis
6. Peptic ulcer
7. Leprosy

### **SHORT ANSWERS**

**5 x 2 = 10 Marks**

8. Hydatid cyst in liver
9. Metaplasia
10. Fate of thrombus
11. Hypertrophy
12. Name any four congenital heart diseases

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# Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Sep 2012

**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 Non-steroidal Anti-inflammatory drugs. Describe the actions, adverse effects and uses of Aspirin.
2. Classify Calcium Channel blockers. Describe the mechanism of action, therapeutic uses and adverse effects of these drugs.
3. Classify Adrenergic drugs. Describe the actions, adverse effects and uses of Adrenaline.

### **SHORT ESSAYS (Answer any Eight)**

**8 x 5 = 40 Marks**

4. Sulfonylureas.
5. Write the adverse effects and uses of Barbiturates?
6. Enumerate Thrombolytics and mention the clinical uses.
7. Allopurinol.
8. Monoamine Oxidase Inhibitors.
9. Write a note on Proton pump inhibitors.
10. Write the adverse effects and uses of ACE inhibitors?
11. AMIODARONE.
12. Write a note on Atorvastatin.
13. Enumerate Purgatives. Write a note on bulk Purgatives.

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

14. Write any Four drugs administered by I.V. route.
15. Mention two drugs used in Gout.
16. Clinical uses of Insulin.
17. Write any Four uses of Glucocorticoids.
18. Write any Four drugs used in Epilepsy.
19. Clinical uses of Anti-histamines
20. Adverse effects of Loop Diuretics.
21. CILOSTAZOL- Mechanism of action and two uses.
22. Four uses of Nitrates.
23. Adverse effects of Atropine.

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**Time: 3 Hours**

**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. Define and classify hypersensitivity. Write in detail on type I hypersensitivity
2. Classify mycobacteria. Explain pathogenesis and lab diagnosis of pulmonary tuberculosis. Add a note on RNTCP

### **SHORT ESSAYS (Answer any Four)**

**4 x 5 = 20 Marks**

3. Write universal precautions
4. Urinary tract infections
5. Widal test
6. Structure and symmetry of viruses
7. Poliomyelitis

### **SHORT ANSWERS**

**5 x 2 = 10 Marks**

8. Name any three sexually transmitted diseases
9. Mention any four zoonotic diseases
10. Name four organism causing gastroenteritis
11. Name any four bacteria causing wound infections
12. Draw a neat labeled diagram of HIV virus

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II Year B.P.T. Degree Examination - Sep 2012

**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. Describe various PNF techniques of facilitation for mobility.
2. Describe the technique of mobilising the ankle joint.
3. Discuss the various physiological changes that occurs during aerobic exercises.

#### SHORT ESSAYS (Answer any Twelve)

**12 x 5 = 60 Marks**

4. Describe how would you measure the range of movement of supination and pronation using goniometer.
5. Describe the ranges of muscle work with examples.
6. Describe the technique of petrissage.
7. Describe the various derived positions in kneeling position.
8. Discuss the various methods for improving standing balance.
9. Examples for free exercises with diagrams for spinal extensors.
10. What is yoga? Mention its basic principles.
11. Discuss with the examples close kinetic chain exercises for shoulder.
12. What is hydrotherapy and describe the principle of hydrotherapy.
13. Explain factors which pre disposes to poor postures.
14. What are the indications and principle for resisted exercises?
15. Physiological uses of massage.
16. Describe the techniques of muscle testing for shoulder extensors.
17. Describe circuit training.

#### SHORT ANSWERS

**10 x 2 = 20 Marks**

18. Strain.
19. Name the critical elements of exercises.
20. Two limitations of joint mobilization.
21. Name the test for inco-ordination.
22. Define posture.
23. What is vertical suspension?
24. Two contra indications of inverted asanas.
25. Uses of hip hiking.
26. Two uses of assisted exercises.
27. SAID Principle.

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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 principles and production of SWD and explain the various methods of heat production. Add a note on spacing of electrodes.
2. Enumerate the types of Ultra violet radiation. Explain the method of test dose and describe calculation of the dosage.
3. Define TENS. List the various types of TENS and give the features of each type and their therapeutic uses.

### SHORT ESSAYS (Answer any Twelve)

**12 x 5 = 60 Marks**

4. Explain types of valves used in the electrotherapy units.
5. Describe the electromagnetic spectrum and indicate the unit in which it is utilized.
6. Give the types of modified A.C currents used in physiotherapy. Describe any one in detail.
7. Write in detail about anodal galvanism.
8. List the various tests used in electro diagnosis. Describe any one in detail.
9. What is Bio feedback? Give the importance of its use in physiotherapy.
10. Explain the method of application of phonophoresis and indicate its uses.
11. Give the physiological effects of IRR.
12. Explain the production of ultra sound and give a note on dosimetry in ultrasound.
13. Describe the indications and contra indications of contrast bath usage.
14. Give the principles of Wax bath therapy.
15. Explain the type of applicators used in a MWD unit and its uses.
16. Give the benefits of cold packs usage.
17. Explain the types of electrode placement in Interferential therapy.

### SHORT ANSWERS

**10 x 2 = 20 Marks**

18. Use of a fuse in electrotherapy unit.
19. Define condenser.
20. Give 2 uses of interrupted galvanic current.
21. Give 2 features of a faradic current.
22. What is cathodal galvanism?
23. Give 2 uses of SD curve used in electrotherapy.
24. Define Pulsed electro magnetic energy.
25. Give 2 uses of a whirlpool bath.
26. Define Ohms law.
27. Define the term nerve conduction velocity.

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**Max. Marks: 80 Marks**

## 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. Problems encountered by researchers in India
2. Methods of data collection in research
3. Probability and standard distribution

### **SHORT ESSAYS (Answer any Eight)**

**8 x 5 = 40 Marks**

4. Analysis of variance (ANOVA)
5. Criteria for good research
6. Basic principles of experimental design
7. Computers and researcher
8. Explain different types of sampling design
9. Techniques of developing measurement tools
10. Difference between explorative and descriptive research design
11. Statistics and health science including physiotherapy
12. Tabulation of data
13. Important scaling techniques

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

14. Nominal scale
15. Median
16. Need for sampling
17. Descriptive vs Analytical research
18. Stratified sampling
19. Define research
20. Dependent vs Independent variable
21. Research problem
22. Experimental research designs
23. What is hypothesis?

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