

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – SEP-2017

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. Define and classify cirrhosis. Discuss alcoholic liver disease.	(2+2+6)
2. Define edema. Discuss etiopathogenesis of edema. Discuss renal edema.	(2+4+4)
 SHORT ESSAYS (Answer any Four) 3. Etiopathogenesis and types of pathological calcification with examples 4. Define metaplasia with examples. 5. Classification and microscopy leprosy. 6. Morphology of osteosarcoma 7. Etiopathogenesis and microscopy of Hashimoto's thyroiditis 	4 x 5 = 20 Marks
 SHORT ANSWERS 8. Types of emphysema 9. Mention three laboratory diagnosis of Beta-Thalassaemia. 10. Cardinal signs of inflammation 11. Four examples of congenital heart diseases 12. Classify bleeding disorders. 	5 x 2 = 10Marks



Max. Marks: 40 Marks

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – SEP-2017

Time: 3 Hours

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. Define and classify sterilization. Give a detailed account of moist heat methods of sterilization.
- 2. Enumerate the viruses causing hepatitis. Write in detail about the pathogenicity and laboratory diagnosis of hepatitis B virus.

SHORT ESSAYS (Answer any Four)

- 3. Normal flora of the human body
- 4. Bacterial growth curve
- 5. Determinants of antigenicity
- 6. Clinical manifestation of staphylococcus aureus
- 7. Prophylaxis of polio

SHORT ANSWERS

- 8. Name any two capsulated bacteria.
- 9. Name any two biological vectors.
- 10. RNTCP of tuberculosis (Revised National Tuberculosis Control Programme)
- 11. Name any two superficial fungal infections.
- 12. Name any two opportunistic infections in AIDS.

5 x 2 = 10Marks

1 x 10 = 10 Marks

4 x 5 = 20 Marks



Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - SEP-2017

Time: Three Hours

Pharmacology (RS-5) **O.P. CODE: 2739**

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

LONG ESSAYS (Answer any Two)

- Classify antiepileptic drugs and explain about Phenytoin. 1.
- 2. Classify oral hypoglycemic and explain about Metformin.
- 3. Drugs used in treatment of Gout

SHORT ESSAYS (Answer any Eight)

- 4. Salbutamol
- 5. Treatment for allergic rhinitis
- 6. Insulin
- 7. Bisacodyl
- 8. Biotransformation
- 9. ACE inhibitors
- 10. Treatment for Myasthenia gravis
- 11. Tricyclic antidepressants
- 12. Diazepam
- Phenobarbitone 13.

SHORT ANSWERS

- 14. Adverse effects of glucocorticoids
- Ranker.com Name any four drugs causing orthostatic hypotension as adverse effects in geriatrics. 15.
- Name any four drugs increasing the risk dementia in geriatrics. 16.
- Name any four drugs interacting with NSAID. 17.
- Name any two uses and adverse effects of digoxin. 18.
- Tachyphylaxis 19.
- 20. Teratogenic drugs
- 21. Placebo
- 22. Name any two uses and adverse effects of Atorvastatin.
- 23. Styptics

2 x 10 = 20 Marks

Max. Marks: 80 Marks

 $8 \times 5 = 40$ Marks

 $10 \times 2 = 20$ Marks



Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – SEP-2017

Time: Three Hours

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 (Answer any Two)

- 1. What are aerobic exercises? Explain the principles of aerobic exercise training and its effect on cardiovascular system.
- 2. Describe the physiology of balance and the components of balance.
- 3. Explain relaxation and write about Jacobson's relaxation.

SHORT ESSAYS (Answer any Twelve)

- 4. Explain the types of suspension therapy.
- 5. Explain the ATP-PCr system during exercise.
- 6. List out starting positions. Explain any one starting position with the muscle activity.
- 7. Write about open chain and closed chain exercise.
- 8. Advantages and disadvantages of group exercises
- 9. Use of Frenkles exercise and its progression
- 10. Merits and demerits of Hydrotherapy
- 11. Write about mat exercises.
- 12. Indications and contraindications of joint mobilization
- 13. Principles and technique of Free exercises
- 14. What is progressive resisted exercise? Explain oxford technique.
- 15. Technique of Goniometric measurement for Ankle Joint
- 16. Write in brief about concentric and eccentric exercise with examples.
- 17. Write in brief about the angle of pelvic inclination.

SHORT ANSWERS

- 18. Define stride length.
- 19. Isokinetic exercises
- 20. BRIME
- 21. Gutter Crutch
- 22. Define equilibrium.
- 23. SAID principle
- 24. 10RM
- 25. Vo2 Max
- 26. Active and inactive posture
- 27. Two tests for inco-ordination

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10 x 2 = 20 Marks

2 x 10 = 20 Marks

 $12 \times 5 = 60 \text{ Marks}$

Max. Marks: 100 Marks



Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination - SEPT 2017

Time: Three Hours

Electrotherapy (RS-5) **O.P. CODE: 2741**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

- What is Piezzo electric effect? Describe the production of ultrasound with a neat diagram. Mention 1 the indications and contraindications of ultrasound.
- 2. Describe the production of LASER. Write a note on the dosage of LASER.
- 3. Describe the production of IRR. Add a note on dosage and dangers of IRR.

SHORT ESSAYS (Answer any Twelve)

- 4. Cavitation in ultrasound
- Describe the cable method of SWD. 5.
- 6. Physiological and therapeutic effects of MWD
- 7. Explain the principle of biofeedback.
- 8. Mechanism of propagation of action potential
- Indications and contraindications of IRR 9.
- 10. Physiological and therapeutic effects of UVR
- 11. Methods of application of wax
- 12. Placement and spacing in SWD
- 13. Principles of fluidotherapy
- er.com 14. Therapeutic uses and contraindications of Moist heat therapy
- 15. Indications and contraindications of contrast bath
- 16. Electrode placement in IFT
- 17. Dosage of TENS

SHORT ANSWERS

- 18. What is standing wave in ultrasound?
- 19. What is magnetron?
- 20. Define Rheobase and Chronaxie.
- 21. What is attenuation?
- 22. Methods of application of wax bath
- 23. Name dangers of UVR
- 24. FG test
- 25. Beat frequency in IFT
- 26. Accommodation
- 27. Sinusoidal current

$10 \times 2 = 20$ Marks

2 x 10 = 20 Marks

Max. Marks: 100 Marks

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 $12 \times 5 = 60 \text{ Marks}$



Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - SEP-2017 Max. Marks: 40 Marks

Time: 3 Hours

Pathology

O.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) 1 x 10 = 10 Marks

LONG ESSAYS (Answer any One)

- Define anaemia. Classify anaemia and write laboratory diagnosis of Iron deficiency anaemia. 1.
- 2. Define inflammation. Discuss vascular and cellular events in acute inflammation.

SHORT ESSAYS (Answer any Four)

- 3. Causes of edema
- 4. Atrophy and hypertrophy
- 5. Tuberculous arthritis
- 6. Osteoporosis
- 7. Thrombosis

SHORT ANSWERS

- 8. **Rickets**
- 9. Exudates
- 10. Name four hemoparasites.
- 11. Virchow's triad
- www.first.anker.com 12. HIV - modes of transmission

5 x 2 = 10 Marks

4 x 5 = 20 Marks



Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - SEP-2017

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. Define and classify sterilization. Write about autoclave.
- 2. Draw neat, labeled diagram of HIV. Write about laboratory diagnosis of HIV-AIDS.

SHORT ESSAYS (Answer any Four)

- 3. Laboratory diagnosis of streptococcal infections
- 4. Normal flora of body
- 5. Gas gangrene
- 6. Iq A.
- 7. Bacterial growth curve

SHORT ANSWERS

- 8. Cytopathic effects
- 9.
- 10. Name four fungi causing deep mycoses.
- 11.
- 12.

5 x 2 = 10 Marks

1 x 10 = 10 Marks

4 x 5 = 20 Marks

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II Year B.P.T. Degree Examination - SEP-2017

Time: Three Hours

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)

- Classify skeletal muscle relaxants. Write the action, uses and adverse effects of centrally 1 acting agents
- 2. Enumerate Glucocorticoids. Mention the uses and long term adverse effects of prednisolone. Add a note on HPA axis suppression
- 3. Classify antianginal drugs. Describe the actions uses and adverse effects of nitroglycerine

SHORT ESSAYS (Answer any Eight)

- 4. Drug tolerance with examples
- 5. Cardio selective Beta-blockers
- 6. Inhalational bronchodilators
- 7. Anabolic steroids
- 8. Cardiac glycosides
- 9. Phase I biotransformation
- 10. Drugs for chronic Gout
- 11. Proton pump inhibitors
- 12. Levodopa
- 13. ACE inhibitors

SHORT ANSWERS

- www.firstRanker.com 14. Mention two drugs for myasthenia gravis
- 15. Name two adverse effects of phenytoin
- 16. Mention two emergency uses of adrenalin
- 17. Define drug synergism with one example
- 18. Give two examples for drugs acting by inhibiting an enzyme
- 19. Mention two drugs causing parkinsonism
- 20. What is teratogenesis? Give one example
- 21. Write the treatment for status epilepticus
- 22. Mention two uses of Thiazide diuretics
- 23. Mention two drugs to prevent osteoporosis

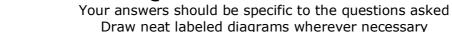
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 $10 \ge 2 = 20$ Marks

2 x 10 = 20 Marks

Max. Marks: 80 Marks

 $8 \times 5 = 40$ Marks



LONG ESSAYS (Answer any Two)

Time: Three Hours

1. Classify the techniques of Massage. Give the physiological effects of Massage. Describe any ONE.

Q.P. CODE: 2711

- 2. Give the principles of MMT. Explain methods of assessment of deltoid from Grade 2 - 5.
- 3. List the principles of hydrotherapy. Describe each in detail with examples.

SHORT ESSAYS (Answer any Twelve)

- 4. Enumerate 5 starting positions. Describe in detail any ONE.
- 5. Explain the types of aerobic training.
- 6. List types of walking aids. Explain two in detail.
- 7. Enumerate types of trick movements. Describe any one in detail.
- 8. Explain the various types of goniometers used.
- 9. Define types of posture. Give principles of postural re-education.
- 10. Give the types of passive movements with examples.
- Explain the principles and uses of relaxation. 11.
- 12. Give the advantages of MMT.
- 13. Explain use of axial suspension for knee joint.
- 14. Describe 5 methods to mobilize a stiff joint.
- 15. Explain the therapeutic effects of massage.
- 16. Describe the principles of PNE techniques.
- 17. Describe measurement of apparent length.

SHORT ANSWERS

- 18. Give the importance of measuring pelvic inclination.
- 19. Give 2 uses of resistance exercise.
- 20. Describe any one asana with example.
- 21. Define the term BRIME.
- 22. Advantages of group exercise (any two).
- 23. Give 2 contraindications for active exercise.
- 24. List 2 uses of balance training.
- Give 2 tests of in -coordination. 25.
- 26 Give 2 contraindications of massage.
- 27 What is dynamic power test?

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II Year B.P.T. Degree Examination – SEP-2017

EXERCISE THERAPY (RS - 3 & RS - 4)

 $12 \times 5 = 60$ Marks

 $2 \times 10 = 20$ Marks

 $10 \ge 2 = 20$ Marks

Max. Marks: 100 Marks

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II Year B.P.T. Degree Examination - SEPT 2017

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)

- 1. Describe the physiological effects and therapeutic uses of ultra sound.
- 2. Write in detail the principles of production of UVR?
- 3. Classify TENS. Write in detail the mechanism of pain relief for various types of TENS?

SHORT ESSAYS (Answer any Twelve)

- 4. Therapeutic effects of microwave diathermy.
- 5. Method of application of ultrasound.
- 6. Indication and contraindication for shortwave diathermy.
- 7. Physiological and therapeutic effects of wax bath. er co
- Define condenser. Explain types and uses. 8.
- 9. Construction of EMG equipment.
- 10. Dangers and precaution for LASER.
- 11. Faradism under pressure.
- Indications and contraindications of infra red radiations. 12.
- Electrode placement of INTERFERENTAL THERAPY. 13.
- Properties of electromagnetic radiations. 14.
- Define burns give an account of prevention. 15.
- 16. Moist heat therapy.
- 17. Bio-feed back.

SHORT ANSWERS

- 18. What is chronaxie?
- 19. Classify Laser.
- 20. Micro massage.
- 21. Types of nociceptors.
- 22. Define Ohm's law.
- 23. What is latent heat?
- 24. Define monochromocity.
- 25. What is coupling media?
- 26. Two indications of cryotherapy.
- 27. Define depolarization.

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 $12 \times 5 = 60 \text{ Marks}$

10 x 2 = 20 Marks

 $2 \times 10 = 20$ Marks



Rajiv Gandhi University of Health Sciences, Karnataka II Year B.P.T. Degree Examination – SEP-2017

Time: Three Hours

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)

- 1. Define biostatics, Explain characteristics of biostatistics
- 2. Define research design, Explain the different types of research design
- 3. Define tabulation. Explain the important types of graphical representation

SHORT ESSAYS (Answer any Eight)

- 4. Analysis of variance and covariance (ANOVA & ANACOVA)
- 5. Stratified sampling
- 6. Chi-square test
- 7. Explain measures of asymmetry
- 8. Explain steps involved in the processing of data
- 9. Describe basic concept concerning testing of hypotheses
- 10. Describe various scale of measurement with examples
- 11. Explain measures of central tendency
- 12. Criteria for a good research
- 13. Explain questionnaire methods of data collection

SHORT ANSWERS

- 14. Define ratio scale
- 15. Define mode
- 16. Coding
- 17. Distinguish between primary and secondary data
- 18. Frequency polygon
- 19. Case-control study
- 20. Sampling errors
- 21. Standard deviation
- 22. Binomial distribution
- 23. Skewness

2 x 10 = 20 Marks

8 x 5 = 40 Marks

10 x 2 = 20 Marks