Rajiv Gandhi University of Health Sciences

QP CODE : **2058**

SECOND YEAR B.P.T. DEGREE EXAMINATION, September -2005
PHARMACOLOGY
(For 1996 batch only)

Time : Three Hours

Maximum Marks :70 Marks

Your answers shall be specific to the questions asked.
Draw neat and labeled diagrams wherever necessary.

Long Essays

1. Enumerate nonsteroidal anti-inflamatory drugs. Write the mechanism of action, adverse effects and therapentic uses of aspirin.
2. Define Biotransformation. Discuss the different types of Biotransformation with suitable examples.
3. Enumerate insulin preparations. Write the mechanism of action and adverse effects of insulin.

[2 x 10 = 20 marks]

Short Essays

4. Never Drug Delivery Systems.
5. Physostgmine.
6. Sodium Valproate.
7. Diclofenac Sodium.
8. Clofazamine.
9. Erythromycin.
10. Glyceryl trinitrate.
11. Propyl thiouracil.

[6 x 5 = 30 marks]

Short Answers

12. Define Pharmacogenetics. Give two examples.
13. Mention four uses of B-Blociers.
14. List two important uses of Succinyl choline.
15. Mention two mucolytics with their mechanism of action.
16. Mention two differences between neostigmine and phyeostigmine.
17. List two uses of Marritol.
18. Name four penicillinase resistant penicillins.
19. Name four drugs effective in enteric fever.
20. Morphine is Contra indicated in head injury why?
21. Name two aminoglycoside antibiotics with their two important adverse effects.

[10 x 2 = 20 marks]

Rajiv Gandhi University of Health Sciences

QP CODE : **2059/2060**

SECOND YEAR B.P.T.DEGREE EXAMINATION, September -2005
PATHOLOGY AND MICROBIOLOGY
(Old Scheme(1996-1997 BATCH))

Time : THREE HOURS Maximum Marks :100 Marks

Your answers shall be specific to the questions asked. Answer Sections A and B in seperate answer-books.
Draw neat and labelled diagrams wherever necessary.

SectionA (PATHOLOGY)
(50 marks)

Long Essays

1. Define and classify neoplasms. Describe the modes of spread of malignant tumours giving examples.
2. Define peptic ulcer. Mention the sites. Describe the pathogenesis and complications of peptic ulcer.

[1 x 10 = 10 marks]

Short Essays

3. Healing of fracture.
4. Emphysema.
5. Radiation Carcinogenesis.
6. Dry gangrene.
7. Dystrophic calcification.
8. Atheromatous plaque.
9. Giant cell tumour of bone.

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[6 x 5 = 30 marks]

Short Answers

10. Brodie abscess.
11. Tuberculous meningitis.
12. Complications of diabetes mellitus.
13. Cardinal signs of inflammation.
14. Venous thrombosis.

[5 x 2 = 10 marks]

SectionB (MICROBIOLOGY)
(50 marks)

Long Essays

15. Enumerate bacteria causing lespiratory infections. Describe in detail the pathogenesis and laboratory diognosis of pulmonary tuberculosis.
16. Define and classify Immunity. Describe in detail passive Immunity.

[1 x 10 = 10 marks]

Short Essays

17. HIV.
18. Coogulase test.
19. Oral thrush.
20. Bacterial diarrhoea.
21. Moist heat stalilisation.
22. Bacterial motility.
23. Hospital acquiled infections.

[6 x 5 = 30 marks]

Short Answers

24. Intermittent sterilisation.
25. Name four bacterial agents causing urinary tract infections.
26. Mac Conkey's Agar.

Turn Over

27. Mention fever infections transmitted through blood transfusion.
28. Anti Streptolysin O test (ASO)

P.T.O

Rajiv Gandhi University of Health Sciences

QP CODE : 2162

SECOND YEAR B.P.T. DEGREE EXAMINATION,September-2005
ELECTRO THERAPY

Time : Three Hours

Maximum Marks :100 Marks

Your answers shall be specific to the questions asked.
Draw neat and labeled diagrams wherever necessary.

Long Essays

1. Define ultraviolet radiation. Explain the production of ultraviolet radiation in detial.
2. Explain the nature & features of electromagnetic spectrum.
3. Define cryotherapy. Explain in detail the clinical application of cryotherapy.

[2 x 10 = 20 marks]

Short Essays

4. Brief how heat is transmitted in short wave diathermy
5. What are the physiological effects of infra red radiation?
6. What are the therapeutic effects of microwave diathermy?
7. What is LASER? Explain its principles
8. What are the properties of electro magnetic radiation?
9. Briefly write on iontophoresis
10. Brief about spacing of electrodes in short wave diathermy.
11. Compare interferential therapy & transcutaneous electrical nerve stimulation in clinical application.
12. What is phorophoresis?
13. Give the classification of infrared radiation with respect to wavelenth.
14. Briefly write on the general safety with microwave diathermy.
15. Brief out DC waveforms.
16. What is photosensitization in ultraviolet radiation.
17. What are the methods of application of trancutaneous electrical nerve stimulation?

[12 x 5 = 60 marks]

Short Answers

18. Types of electrodes used in short wave diathermy.
19. Any 4 therapeutic effects of interferenties therapy.
20. Parameters use din low TENS
21. List any 4 dangers of ultraviolet radiation.
22. Define sinusoidal current.
23. Define iontophores's
24. Define synafose.
25. Write 4 dangers of short wave diathermy.
26. What is mark space ratio in ultrasound?
27. What is faradism under pressure?

[10 x 2 = 20 marks]

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Rajiv Gandhi University of Health Sciences

QP CODE : 2158

SECOND YEAR B.P.T.(PHSIOTHERAPY) DEGREE EXAMINATION,September-2005
PHARMACOLOGY
(Revised Scheme (1997 batch onwards))

Time : Three Hours | Maximum Marks :80 Marks

Your answers shall be specific to the questions asked.
Draw neat and labeled diagrams wherever necessary.

Long Essays

1. Classify B-blokers. Write the pharmacological actions and therapeutic uses of propranoloe.
2. Enumerate anti hypertensives. Write the pharmacology of angiolension converting enzyme inhibitors.
3. Enumerate aminoglycoside antibiotics. Mention their mechanism of action and adverse effects.

[2 x 10 = 20 marks]

Short Essays

4. Drug tolerance.
5. Therapeutic uses of penicillins
6. Centrally acting skeletal muscle relaxants
7. Nifedipine
8. Newer insulins
9. Doxycycline
10. Dapsone
11. Carbamazepine
12. Pethidine
13. Thrombin

[8 x 5 = 40 marks]

Short Answers

14. Define antagonism and mention its importance.
15. List four important contraindications to use of steriods.
16. Ethyl alcohol is used in methyl alcohol poisoning why?
17. Clavulanic acid is combined with amoxycillin Why?
18. Name two flouroquinolones and mention their uses.
19. Name two mucolytics and mention their mode of action
20. List four adverse effects of atropine
21. Name two oral hypoglycemics acting by different mechanisms
22. List four uses of B blockers
23. State why dopamine is used in shock

[10 x 2 = 20 marks]

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Rajiv Gandhi University of Health Sciences

QP CODE : 2159/2160

SECOND YEAR B.P.T.DEGREE EXAMINATION,September-2005
PATHOLOGY AND MICROBIOLOGY
((1997-1998 BATCH AND ONWARDS))

Time : THREE HOURS Maximum Marks :80 Marks

Your answers shall be specific to the questions asked. Answer Sections A and B in seperate answer-books
Draw neat and labelled diagrams wherever necessary.

SectionA (PATHOLOGY)
(40 marks)

Long Essays

1. Define and classify oedema. Describe the pathogenesis and pathology of anasarca.
2. Define inflammation. Describe the cellular events in acute inflammation.

[1 x 10 = 10 marks]

Short Essays

3. Fat embolism
4. Lab diagnosis of iron deficiency anaemia
5. Lobar pneumonia
6. Viral oncogenesis
7. Giant cell tumour of bone

[4 x 5 = 20 marks]

Short Answers

8. Hyaline change
9. Coagulative necrosis
10. Carpal tunnel syndrome
11. Aschoff body
12. Gumma

[5 x 2 = 10 marks]

SectionB (MICROBIOLOGY)
(40 marks)

Long Essays

13. Describe the morphology and laboratory diagnosis of vibrio cholerae.
14. Classify culture media and describe blood agar

[1 x 10 = 10 marks]

Short Essays

15. Coagulase test
16. Pasturisation
17. AIDS
18. small pox virus
19. Candidiasis

[4 x 5 = 20 marks]

Short Answers

20. Enumerate four agents causing gasteroenteritis.
21. Mention 4 viral vaccines
22. Gram's stain
23. Mention four common agents used for the disinfection
24. Uses of light Microscope.

[5 x 2 = 10 marks]

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Rajiv Gandhi University of Health Sciences

QP CODE : 2161

SECOND YEAR B.P.T. DEGREE EXAMINATION, October 2005
THERAPEUTICS

Time : Three Hours

Maximum Marks :100 Marks

Your answers shall be specific to the questions asked
Draw neat and labeled diagrams wherever necessary

Long Essays

1. List the different gait deviations. Discuss any three in detail
2. Give the indications of postural drainage. Describe with the heep of a diagram positions for the segments of the right upper lobe
3. Describe the principles of manual muscle testing. Give the merits and limitations.

[2 x 10 = 20 marks]

Short Essays

4. What is 'PRE'. Explain indications and contra indications of Deloreme's technique. •
5. Explain rhythmic stabilisation in PNF. •
6. Give methods of sensory reeducation of hand.
7. Technique for measurement of axillary crutch
8. Effects and uses of kneading. •
9. Define trick movements. Describe at least 3 types. •
10. Classify and explain passive movements. •
11. Give 5 physiological effects of pressage. •
12. List 5 limitation of measuring a joint range of motion
13. What are the precautions to be taken in a wheelchair transfer. •
14. Principles of relaxation. •
15. Give 5 exercises to mobilise a stiff shoulder. •
16. How will you test and stretch quadriceps muscle ? •
17. Describe a good posture. •



[12 x 5 = 60 marks]

Short Answers

18. Give 4 indications of manual traction
19. Write down the laws of co ordination
20. Draw reverse technique of PNF limb
21. Procedure for measuring Lue limb length
22. Uses of assisted exercises
23. Testing of tendon activities in hand
24. Give 2 indications of hydrotherapy
25. Advantages of suspension therapy
26. Describe vertical suspension
27. Give the uses of crawl position

[10 x 2 = 20 marks]

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Rajiv Gandhi University of Health Sciences

QP CODE : 2162

SECOND YEAR B.P.T. DEGREE EXAMINATION,September-2005
ELECTRO THERAPY

Time : Three Hours Maximum Marks :100 Marks

Your answers shall be specific to the questions asked.
Draw neat and labeled diagrams wherever necessary.

Long Essays

1. Define ultraviolet radiation. Explain the production of ultraviolet radiation in detial.
2. Explain the nature & features of electromagnetic spectrum.
3. Define cryotherapy. Explain in detail the clinical application of cryotherapy.

[2 x 10 = 20 marks]

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Short Essays

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