RC—2058

SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2004

PHARMACOLOGY

(1996–97 Batch)

Time : Three Hours Maximum : 70 Marks

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

I. Long Essays : (Answer any *two*)

1 Classify Penicillins. Write the mechanism of action, antimicrobial spectra, uses and side effects of Benzyl Penicillin.

2 Enumerate the anticholinergic drugs. Write the pharmacological actions, uses and side effects of atropine.

3 Enumerate the routes of drug administration. Write the advantages, disadvantages of parenteral drug administration.

(2 × 10 = 20 marks)

II. Short Essays : (Answer any *six*)

4 Preanaesthetic medication.

5 Indomethacin.

6 Carbamazepine.

7 Ciprofloxacin.

8 Anabolic steroids.

9 Neostigmine.

10 Mucolytic agents.

11 Succinyl choline.

(6 × 5 = 30 marks)

III. Short Answers :

12 Name two antidotes for morphine poisoning.

13 Name two antihypertensive drug. Mention one side effect of each.

14 What is drug allergy ? Name two drugs causing it.

15 Name four side effects of glucocorticoids.

16 What is B.C.G. vaccine ? What is its use ?

17 Name two drugs used in angina pectoris.

18 Name two beta blockers. Mention two uses.

19 Name two antithyroid drugs.

20 Name two loop diuretics. Mention two side effects.

21 Name two uses and two side effects of Rifampicin.

(10 × 2 = 20 marks)

(7) 105

(37)

RC—2159

SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2004

PATHOLOGY AND MICROBIOLOGY

(1997–98 batch onwards)

Time : Three Hours

Maximum : 40 Marks

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

I. Long Essays : (Answer any *one*)

1 Define and classify gangrene. Tabulate the differences between Dry gangrene and Wet gangrene.

2 Pathogenesis and Clinicopathological features of Gout.

(1 × 10 = 10 marks)

II. Short Essays : (Answer any *four*)

3 Factors influencing healing process.

4 Atrophy.

5 Osteogenic sarcoma.

6 Cerebral haemorrhage.

7 Emphysema.

DR. MGR MEDICAL UNIVERSITY CENTRAL LIBRARY

(4 × 5 = 20 marks)

III. Short Answers :

8 Iron Deficiency anemia.

9 Sequestrum.

10 Myocardial infarction.

11 Volkmann's ischaemic contracture.

12 Edema.

(5 × 2 = 10 marks)

(38) 404

RC—2160

SECOND YEAR B.P.T. DEGREE EXAMINATION, 2004

PATHOLOGY AND MICROBIOLOGY

(1997-98 Batch and onwards)

Time : Three Hours Maximum : 40 Marks

Your answer shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

Section B (Microbiology)

I. Long Essays. (Answer any *one*) :

1 Define the term sterilization. Discuss moist heat methods of sterilization.

2 Define and classify hypersensitivity reactions. Discuss Anaphylaxis in detail.

(1 × 10 = 10 marks)

II. Short Essays. (Answer any *four*) :

3 Antibiotic susceptibility tests.

4 DPT Vaccine.

5 Gonococci.

6 Prevention of Hospital acquired infections.

7 AIDS.

(4 × 5 = 20 marks)

III. Short Answers :

8 Mention two anaerobic bacteria.

9 Name two dermatophytes.

10 Two common bacterial agents urinary tract infections.

11 Fimbria.

12 Herd Immunity.

(5 × 2 = 10 marks)

(39) ~~103~~

RC—2161

SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2004

THERAPEUTICS

Three Hours Maximum : 100 Marks

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

I. Long Essays : (Answer any *two*)

1 Describe the methods of strengthening triceps from grade 2 to grade 5.

2 Define aerobic exercise. What are the principles of aerobic exercise ? List the effects of exercise for health.

3 Write down the different patterns of PNF for lower extremity. Discuss any *one* pattern in detail.

(2 × 10 = 20 marks)

II. Short Essays : (Answer any *twelve*)

4 Give the merits and demerits of suspension therapy.

5 Therapeutic effects of exercises in water.

6 Testing and stretching of Tensor Fascia Lata.

7 What are the contraindications of joint mobilisation ?

8 Explain five physiological effects of massage.

9 Effects and uses of assisted exercise.

10 Give the principles of goniometry.

11 List the methods of measuring chest expansion.

12 Explain the method of measuring true and apparent length.

13 Uses of passive movement.

14 Give indications for mat exercises.

15 Enumerate the functions of the hand.

16 Write a note on partial weight bearing crutch gait.

17 Muscle work involved in ideal standing.

(12 × 5 = 60 marks)

III. Short Answers :

18 What is active and inactive posture ?

19 Two uses of Crawling position.

20 Uses of DeLormes method of strengthening.

21 What is Viscosity and resistance ?

Turn over

22 Define Accessory movement.

23 Give *two* uses of static cycle.

24 Define flexibility.

25 Differentiate between Coughing and Huffing.

26 Two uses of relaxation.

27 Write on pursed lip breathing.

(10 × 2 = 20 marks)

~~102~~ (41)

C—2161

RC—2162

SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2004

ELECTROTHERAPY

Time : Three Hours Maximum : 100 Marks

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

marks)

I. Long Essays : (Answer any *two*)

1 Explain in detail the production and transmission of ultrasound. Add a note on possible dangers that can occur while using ultrasound.

2 What are the various methods of using ice for therapeutic purposes ? Brief about its physiological effects.

3 Explain the techniques of faradic current stimulation.

(2 × 10 – 20 marks)

II. Short Essays : (Answer any *twelve*)

4 List out and explain therapeutic effects of short wave diathermy.

5 Plan out a test dose using ultraviolet radiation.

6 What are the different methods of application of near therapy ?

7 Write a note on law TENS (Transcutaneous Electrical Nerve Stimulation).

8 What are the merits and demerits of strength duration curve ?

9 Write the clinical uses of interferential therapy.

10 What is pulsed shortwave diathermy ?

11 Write a note on coupling media.

12 Briefly describe the types of laser.

13 What is contrast bath ?

14 Write briefly on pain gait theory.

15 Brief out luminous generator.

16 Write a note on motor point.

17 What is action potential ?

P.R. MULLER'S CENTRAL LIBRARY

(12 × 5 = 60 marks)

III. Short Answers :

18 What is dosage of microwave diathermy ?

19 Write the nature of electromagnetic spectrum.

20 Placement of electrodes while using transcutaneous electrical nerve stimulator for low back ache.

Turn over

21 Write the importance of coherence.

22 What is faradic galvanic test ?

23 Brief about DC waveforms.

24 Define Eddy current.

25 Four properties of high frequency current.

26 List out *four* dangers of infrared radiation.

27 Define sweep interferential therapy.

(10 × 2 = 20 marks)