SC—1915-A

SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2002

PHARMACOLOGY

(1997–98 Batch)

Time : Three Hours Maximum : 80 Marks

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

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

1 Write an essay on the pharmacological actions and therapeutic uses of lignocaine (xylocaine).

2 Write briefly about factors influencing dosage and frequency of administration of drugs.

3 Classify non-steroidal and anti-inflammatory analgesics (NSAID). Write the mechanism of action, adverse reaction and indications of acetyl salicylic acid.

(2 × 10 = 20 marks)

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

4 Pharmacological effects of Aspirin.

5 Describe the mode of action of nitrites in angina.

6 Mention the mode of action and uses of propranolol.

7 Discuss the mode of action of cromolyn sodium in bronchial asthma.

8 Mention *two* drugs useful for preanaesthetic medication. State the reason for using these drugs.

9 Mention the mode of action of antihistaminics. Name *two* drugs used for relief of cough.

10 Name *two* fluoroquinolone drugs. Mention *two* uses of this group of drugs.

11 State the mode of action of pancuronium. Discuss how the action of this drug can be antagonised.

12 Therapeutic uses of Diazepam.

13 Treatment of morphine addiction.

(8 × 5 = 40 marks)

III. Write brief answers for the following :—

14 What is Baclofen ? Mention the use of this drug.

15 Mention the uses of Pethidine.

16 How does Frusemide produce its therapeutic effect ?

17 Name *two* intravenous anaesthetics.

18 Name *two* broad-spectrum antibiotics.

19 Mention *three* uses of Diazepam.

20 Name *two* anticonvulsants. Indicate specific use of each drug.

21 Name *two* preparations used as inhalers in bronchial asthma. Mention how they act.

22 Mention *two* drugs which can be used for epidural block.

23 What is Cotrimoxazole ? Mention *two* uses of this drug.

(10 × 2 = 20 marks)

SC—1915

SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2002

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 non-steroidal anti-inflammatory analgesic drugs (NSAID). Write the mechanism of action adverse reactions and therapeutic uses of acetyl salicylic acid.

2 Enumerate insulin preparations. Write the mechanism of action and adverse drug reactions to insulin.

3 Write briefly about factors influencing dosage and frequency of administration of drugs.

(2 × 10 = 20 marks)

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

4 Placental transfer of drugs.

5 Meperdine (pethidine).

6 Contraindications to beta blockers.

7 Propylthiouracil.

8 Gentamicin.

9 Ethambutol.

10 Clofazamine.

11 Therapeutic uses of Diazepam.

(6 × 5 = 30 marks)

III. Short Answers :

12 Advantages of intravenous route of administration.

13 Drug synergism with examples.

14 Rationale of using Lugol's iodine before thyroid surgery.

15 Rationale of combining oestrogen and progesterone in oral contraceptive (combined pill).

16 Enumerate four (first-line) drugs used in pulmonary tuberculosis and write one important adverse reaction of each.

17 Enumerate *four* cephalosporins and important uses.

18 Why adrenaline is preferred as drug of choice over antihistaminics in treatment of anaphylactic shock ?

19 Rationale of combining Nifedipine and propranolol in hypertension.

20 Enumerate vasodilators used in congestive cardiac failure.

21 Treatment of hypotension consequent to spinal anaesthesia.

(10 × 2 = 20 marks)

Turn over

SC—1918

SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2002

ELECTROTHERAPY

Time : 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 Discuss the mechanism of action of TNS in reduction of pain.
2 Discuss the methods of application of medium frequency currents.
3 Discuss production of M.W.D. waves with its indications and contraindications.

(2 × 10 = 20 marks)

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

4 Modulation of direct currents.
5 Effects of current flow at tissue level.
6 Sensory stimulation with low frequency currents.
7 Farradic foot bath.
8 Skin resistance.
9 Indications and uses of U.S.
10 Pain transmission.
11 Indications of Interferential Current Therapy.
12 Contra-indications for electrophoresis.
13 Anodal galvanism.
14 Electrode placement in TNS.
15 Contraindications of cryotherapy.
16 Therapeutic uses of U.V.R.
17 Contraindications of S.W.D.

(12 × 5 = 60 marks)

III. Short Answers :

18 Principles of Iontophoresis.
19 Interrupted Galvanic stimulation.
20 What is motor point ?
21 What is Ohm's law ?
22 Iodine Iontophoresis.
23 Constant current stimulator.
24 Two uses of hot packs.
25 High frequency TNS.
26 Types of laser therapy.
27 Resting Membrane Potential.

(10 × 2 = 20 marks)

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(63)

SC—1917

SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2002

THERAPEUTICS

Time : 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 Explain various positions used in therapeutics.
2 What is manual muscle testing ? Discuss the principles and uses of MMT.
3 Discuss the physiological effects of massage on the various systems.

(2 × 10 = 20 marks)

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

4 Exercises for bronchial hygiene.
5 Effects of passive exercises.
6 Define tightness, giving its signs and symptoms. Discuss stretching and home exercises for quadriceps tightness.
7 Define "vicarious movements". Give *four* types of movements giving examples.
8 Merits and demerits of postural drainage.
9 Exercises for power.
10 Group exercises.
11 Frenkel's exercises.
12 Hydrotherapy—principles.
13 Therapeutic gymnasium.
14 Active exercises.
15 Give *three* techniques used in PNF giving description of their use.
16 Relaxation exercises—definition and types.
17 Petrisage manipulation.

(12 × 5 = 60 marks)

III. Short Answers :

18 Coughing exercise.
19 Flexibility.
20 Endurance.
21 Three point gait.
22 Uses of mat exercises.
23 Axial suspension—uses.
24 Kneading—definition and use.
25 Give two derived position and use.
26 Strengthening exercises.
27 Two uses of breathing exercise.
28 Classify active exercise.

(10 × 2 = 20 marks)

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SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2002

PATHOLOGY AND MICROBIOLOGY

(1996–97 Batch)

Time : Three Hours Maximum : 100 Marks

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

Section A (Pathology)

(50 marks)

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

1 Define Inflammation. What are the cardinal signs of acute inflammation ? Discuss briefly about phagocytosis.

2 Define Gangrene. What are the types of gangrene ? List the differences between Dry and Moist gangrene.

(1 × 10 = 10 marks)

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

3 Routes of metastasis.
4 Iron deficiency anaemia.
5 Granuloma.
6 Pneumonia.
7 Osteosarcoma.
8 Types of embolism.
9 Diabetes.

(6 × 5 = 30 marks)

III. Short Answers :

10 Callus.
11 Fate of thrombus.
12 Epithelioid cell.
13 Metaplasia.
14 Opportunistic infections in AIDS.

(5 × 2 = 10 marks)

Section B (Microbiology)

(50 marks)

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

1 Name the organism causing meningitis and describe the laboratory diagnosis of bacterial meningitis.

2 Describe the bacterial cell with a neat diagram.

(1 × 10 = 10 marks)

Turn over

65

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

3 Hepatitis viruses.
4 AIDS.
5 Non specific immunity.
6 Leprosy.
7 Prophylaxis of tetanus.
8 Sexually transmitted diseases.
9 Gas gangrene.

(6 × 5 = 30 marks)

III. Short Answers :

10 Exotoxin.
11 Pasteurisation.
12 V.D.R.L. test.
13 Polio vaccine.
14 Robert Koch.

(5 × 2 = 10 marks)

SC—1916

SC—1916-A

SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2002

PATHOLOGY AND MICROBIOLOGY

(1997–98 Batch)

me : Three Hours Maximum : 80 Marks

5 = 30 marks]

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

Section A (Pathology)

(40 marks)

2 = 10 marks] **I.** Long Essays : (Answer any *one*)

1 Define Inflammation. Write briefly about cellular events in acute inflammation.

2 Define Thrombosis. What are the clinical complications of thrombosis ? Add a note on fate of thrombus.

(1 × 10 = 10 marks)

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

3 Routes of spread of malignant tumours.

4 Gas gangrene.

5 Stages in the healing of bone fracture.

6 Cirrhosis.

7 Bronchitis.

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(4 × 5 = 20 marks)

III. Short Answers :

8 Ulcer.

9 Atrophy.

10 Sequestrum.

11 Anticoagulant.

12 Hypertrophy.

(5 × 2 = 10 marks)

Section B (Microbiology)

(40 marks)

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

1 Describe the bacterial cell with a neat diagram.

2 Describe the morphology culture characters pathogenicity and laboratory diagnosis of mycobacterium leprae.

(1 × 10 = 10 marks)

Turn over

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

3 Meningitis.

4 Viral hepatitis.

5 Autoclave.

6 Sexually transmitted diseases.

7 Prophylaxis of diphtheria.

(4 × 5 = 20 marks)

III. Short Answers :

8 Bacterial flagella.

9 Name any *four* disinfectants.

10 Widal test.

11 Classification of hypersensitivity.

12 Bacillary dysentery.

(5 × 2 = 10 marks)