SC—1326

SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2001

PATHOLOGY AND MICROBIOLOGY

(1996-97 Batch)

Time : 3 Hours Maximum : 100 Marks

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

Section A (Pathology)

(50 marks)

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

1 Briefly outline the sequential steps in wound healing by primary intention.

2 Define Embolism. Describe types and sequele of embolism.

(1 × 10 = 10 marks)

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

3 Caseous Necrosis.

4 Ghon complex.

5 Rickets.

6 Chemo taxis.

7 Hypertrophy.

8 Renal oedema.

9 Malaria.

(6 × 5 = 30 marks)

III. Short Answers :

10 Transudate

11 Toxaemia.

12 Amoebiasis.

13 Neurofibroma.

14 Tuberculoid leprosy.

(5 × 2 = 10 marks)

Section B (Microbiology)

(50 marks)

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

1 Define Sterilization. Give an account on moist heat sterilization.

2 Mention the sexually transmitted diseases. Give an account of Acquired Immuno Deficiency Syndrome diseases (AIDS).

(1 × 10 = 10 marks)

Turn over

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

3 Define Immunity. Write a note on Natural Immunity.

4 Serum Hepatitis.

5 Urinary tract infections.

6 Gas Gangrene.

7 Candida Albicans.

8 Rheumatic fever.

9 BCG.

(6 × 5 = 30 mar

III. Short Answers :

10 Wound infection.

11 Spores.

12 Type I hypersensitivity.

13 Prophylaxis of Poliomyelitis.

14 Carriers.

(5 × 2 = 10 mar

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SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2001

PATHOLOGY AND MICROBIOLOGY

(1997-98 Batch)

Time : 3 Hours Maximum : 80 Marks

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

Section A (Pathology)

(40 marks)

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

1 Briefly describe the formation of a "Callus" in bone fracture.

2 Define Neoplasia. Describe difference between Benign and Malignant tumour.

(1 × 10 = 10 marks)

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

3 Atrophy. 4 Gangrene.

5 Atherosclerosis. 6 Osteomyelitis.

7 Phagocytosis.

(4 × 5 = 20 marks)

III. Short Answers :

8 Metaplasia. 9 Sinus.

10 Miliary Tuberculosis. 11 Meningitis.

12 Exudate.

(5 × 2 = 10 marks)

Section B (Microbiology)

(40 marks)

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

1 Describe the Morphology of bacterial cell.

2 Enumerate infections caused by M. Tuberculosis. Describe laboratory diagnosis of Pulmonary Tuberculosis. Add a note on its Prophylaxis.

(1 × 10 = 10 marks)

Turn over

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

3 Shigellosis.

4 Interferons.

5 Influenza viruses.

6 Dermatophytes.

7 Bacterial food poisoning.

III. Short Answers :

8 Exotoxins.

9 Negri bodies.

10 Lab. diagnosis of Gonorrhoea.

11 Japanese "B" Encephalitis.

12 Mycetoma.

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COND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2001

THERAPEUTICS

: Three Hours Maximum : 100 Marks

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

(4 × 5 = 2

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

1 Breathing exercises. Principles and effects and techniques.
2 Starting positions muscle work of kneeling and hanging.
3 Aerobic exercise effects for health.

(2 × 10 = 20 marks)

II. Short Essays : (Any *twelve*) :

(5 × 2 = 10

1 Suspension therapy.
2 Exercises for fitness principles.
3 Cauching and huffing.
4 Hydrotherapy principles and effects.
5 Tilt table.
6 Hand muscle strengthening.
7 Stretching exercises.
8 10 R.M.
9 Frenkel's.
10 Walling aids.
11 Active exercises classification and uses.
12 Indications and contraindications of massage.
13 Setting a therapeutic gymnasium.
14 Relaxation definiton and types.

(12 × 5 = 60 marks)

III. Short Answers :

1 Wall bars.
2 Springs.
3 Pulleys.
4 Passive Movements.
5 Free exercises.
6 Medicine ball.
7 Dumbells.
8 Co-ordination.
9 Muscle tone.
10 Equilibrium board.

(10 × 2 = 20 marks)

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OND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2001

ELECTROTHERAPY

Three Hours Maximum : 100 Marks

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

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

1 How is the Nerve tissue different from Muscle tissue and how do we make use of this fact in Electrotherapy ?

2 Give the effects of low frequency electrical pulses on tissues.

3 Give the production of ultrasound, its therapeutic and physiological effect.

(2 × 10 = 20 marks)

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

4 Uses of UVR.

5 Sinusoidal currents.

6 Unipolar-Bipolar electrodes.

7 Paraffin wax therapy.

8 Muscle re-education.

9 Diadynamic currents.

10 Faradic foot bath.

11 Contraindications of SWD.

12 Test for polarity of electrodes.

13 Iontophoresis.

14 Contraindications of T.E.N.S.

15 Contrast bath.

16 Merits of infra-red rays.

17 Interferential currents.

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(12 × 5 = 60 marks)

III. Short Answers :

18 Two uses of Cold therapy.

19 What is ramping of current ?

20 Define Laser therapy.

Turn over

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21 Why are treatment pads made of absorbant material ?

22 Why should the intensity increased or decreased slowly ?

23 Why should the inactive pad be larger than the active pad ?

24 What happens if there are cuts in the area to be treated ?

25 *Two* contraindication of MWD.

26 Russian current.

27 What is Ohm's law ?

(10 × 2 = 20 marks)

SECC

Time :

I.

II.

III

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SECOND YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION, 2001

PHARMACOLOGY

(1997-98 and 1998-99 Batch)

Time : 3 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 Enumerate the drugs used in the treatment of hyperthyroidism. Write briefly the Pharmacology of Carbimazole.

2 Enumerate the drugs used in treatment of Cardiac Arrhythmias. Write briefly the Pharmacology of Calcium Channel Blockers.

3 Enumerate the drugs used in the treatment of Epilepsy. Write the uses and adverse effects of Diphenyl Hydantoin.

(2 × 10 = 20 marks)

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

4 Pre-anaesthetic medication.
5 Miotics.
6 Cephalosporins.
7 Drug cumulation.
8 Uses of steroids.
9 Insulin preparations.
10 Anti-emetics.
11 Organo phosphorous poisoning.
12 Mucolytic drugs.
13 Drug tolerance.

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(8 × 5 = 40 marks)

III. Explain the mechanism of action of the following drugs and mention the toxicity :—

14 Oral contraceptives.
15 Omeprazole
16 Ephedrine.
17 Heparin.
18 Spironolactone.
19 Iso Nicotinic acid hydrazide.
20 *d*-Tubo curarine.
21 Aspirin.
22 Nitrogen mustard.
23 Chloramphenicol.

(10 × 2 = 20 marks)

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FIRST/SECOND YEAR B.P.T. DEGREE EXAMINATION, 2001

PHARMACOLOGY

(1996-97 Batch)

Time : 3 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 anti-hypertensive agents. Mention the therapeutic uses and adverse effects of any *one* of them.

2 Discuss the chemotherapy of Leprosy. Mention the main advantages of multi-drug therapy.

3 Classify non-steroidal anti-inflammatory drugs. Mention uses and adverse effects of Salicylates.

(2 × 10 = 20 marks)

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

4 Drugs used in Acute Bronchial Asthma.

5 Drugs used in Grandmal epilepsy.

6 Sublingual administration of drugs.

7 Atropine substitutes as anti-spasmodics.

8 Frusemide.

9 Treatment of organophosphorous poisoning.

10 Glybenclamide.

11 Succinylcholine.

(6 × 5 = 30 marks)

III. Short Answers :

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12 Omeprazole.

13 Anti-emetics.

14 Zylocaine.

15 Propranolol.

16 L-dopa.

17 Codeine.

18 Drugs used in Typhoid fever.

19 Clavulanic acid.

20 Advantages of drugs given by inhalation.

21 Name reversible anti-cholinesterases.

(10 × 2 = 20 marks)