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

ANATOMY

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 *four*)

1 Describe the knee joint in regard to the type, ligaments, murder, movements and nerve supply.
2 Describe the peroneal muscles in regard to their attachment, action and nerve supply.
3 Describe the sciatic nerve in regard to its origin, course, supply applied anatomy.
4 Describe the formation of Brachial plexus. Add a note on Erb's paralysis.
5 Describe Rectus Abdominis Muscle. Its attachments nerve supply action and its relation.

(4 × 10 = 40 marks)

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

6 Laws of ossification.
7 Blood supply to spinal cord.
8 Fibrous cartilage.
9 Muscles of mastication.
10 Lower end of femur.
11 Talocalneonavicular ligament.
12 Deltoid muscle.
13 Inversion and Eversion movements.
14 Atlanto axial joint.
15 Accessory nerve.

(8 × 5 = 40 marks)

III. Short Answers :

16 Extensor retinaculum of wrist.
17 Acromian process.
18 Movements of I carpometacarpal joint.
19 Supinator muscle.
20 Hilum of lung.
21 Branches of ascending aorta.
22 Posterior crico arytenoid muscle.
23 Papillae of tongue.
24 Upper end of Humerus.
25 Mitochondria.

(10 × 2 = 20 marks)



RC—2152

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

PHYSIOLOGY

me : Three Hours | Maximum : 50 Marks

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

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

1 Name the parts of the respiratory tract and outline the mechanics of breathing.

2 Define arterial blood pressure and give normal values. Explain how it is regulated by the arterial baroreceptors.

3 Define reflex action. Draw and label the diagram of a simple reflex arc. Describe any *three* properties of reflexes.

(2 × 10 = 20 marks)

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

4 List the properties of cardiac muscle and explain any *one* of them.

5 Mentionthe source and explain the actions of growth hormone the physiology of parturition.

6 Define isotonic and isometric contractions. Giving examples. Name the metabolic systems that provides energy for muscle contraction.

7 Name the types of deafness. Add a note on tests for hearing.

8 Write a note on reflex control of respiration.

(4 × 5 = 20 marks)

III. Short Answers :

9 Differences between Mellitus and Diabetes insipidus.

14 Normal plasma calcium level. Add two hormones regulating it.

15 Define Vital capacity and give the normal value.

16 Name two refractive errors of the eye and correction lens.

17 What is refefred pain. Give *two* examples.

(5 × 2 = 10 marks)



RC—2153

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

BIOCHEMISTRY

me : Three Hours

Maximum : 50 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 dietary sources, daily requirements, biochemical functions and deficiency diseases of Vitamin A.

2 Classify enzymes with suitable examples. Add a note on enzyme specificity.

3 What are the various types of liver function tests. Describe any *two* of these in detail.

(2 × 10 = 20 marks)

II. Short Essays :

4 Classification of carbohydrates with examples.

5 Vitamin K.

6 Clearance tests.

7 Electrophoresis.

(4 × 5 = 20 marks)

III. Short Answers :

8 Isoelectric pH of proteins.

9 Beri-Beri.

10 Benedict's test.

11 Hormones regulating calcium metabolism.

12 Diabetes insipidus.

(5 × 2 = 10 marks)

RC—2154

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

MEDICAL ELECTRONICS AND COMPUTER APPLICATION (Theory)

(1998 batch onwards)

[Revised Scheme]

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 (a) What is the importance of computers in physiotherapy ?

(b) What are the advantages of computerization in emg. exercise testing and laser ?

2 What is Virus ? How do you classify them ? What are the symptoms of virus attack ? What are the precautionary measures taken against viruses ?

3 What are low frequency currents ? Describe their uses.

(2 × 10 = 20 marks)

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

4 What is static transformer ? What are its functions ?

5 What are common activities in Data Processing ?

6 Explain on any three storage devices.

7 Write a note on integrated circuits.

8 Write on salatory conduction.

9 What are the types of semiconductor ?

10 Safety precautions while using high frequency currents.

11 Write a note on electromagnetic radiation.

12 What is network ? Add a note on functions of server.

13 Draw machine circuit of MWD.



(8 × 5 = 40 marks)

III. Short Answers :

14 Define WVR.

15 What are conductors ?

16 What are the functions of nebulizer ?

17 How do you test electrical stimulator ?

18 Mention different types of bus connection used in system.

19 What is memory ? Mention its types.

20 Define Inverse Square law.

21 Give *two* advantages of Dot Matrix Printer.

22 Write any *two* functions of transformer.

23 How is data represented within a computer ?

(10 × 2 = 20 marks)

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RC—2155

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

GENERAL PSYCHOLOGY

(1998 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 *two*)

1 Define Perception and enumerate with examples the different principles of perception.

2 Discuss in detail Freudian concept of psychosexual development.

3 What are the different forms of leadership ? Discuss the personality traits of a leader.

(1 × 10 = 10 marks)

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

4 Definition of motives and drives.

5 Characteristics of intelligence.

6 Experimental methods in psychology.

7 Psychological changes of emotion.

8 Steps in creative thinking.

(4 × 5 = 20 marks)

III. Short Answers :

9 Sensation and perception.

10 Hallucinations.

11 Projection.

12 Operant conditioning.

13 Interview technique.

(5 × 2 = 10 marks)

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RC—2156

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

SOCIOLOGY

(1998–99 batch)

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 Describe the factors causing social changes. Briefly point out the negative effect of fast changes in a traditional society like India.

2 Explain the causes for population explosion in India. How does modern Indian Government deal with this problem ?

(1 × 10 = 10 marks)

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

3 Interview Schedule and Questionnaire-main differences.

4 Influence of Family on health and sickness.

5 Cultural factors in Health Disorders.

6 Causes for poverty.

7 Social legislation for the disabled in India.

(4 × 5 = 20 marks)

III. Short Answers :

8 Definition of sociology.

9 Primary group.

10 Concept of Health.

11 Types of Beggars.

12 Meaning of social work.

(5 × 2 = 10 marks)

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