(38) 54

Rajiv Gandhi University of Health Sciences

QP CODE : 2151

FIRST YEAR B.Sc. (PHSIOTHERAPY) DEGREE EXAMINATION,September-2005
ANATOMY

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. Enumerate the muscles of the Tongue. Describe the attachments, Nerve supply and actions of Hyoglossus muscle.
2. Name the types of synovial joints. Describe the ligaments, movements, And muscles responsible for the movements of Shoulder joint.
3. Describe the origin, course, termination, relations and branches of Femoral artery. Mention its surface anatomy.
4. Classify Bones with examples. Draw and label microscopic structure of Compact bone.
5. Describe the boundaries, contents and applied anatomy of Axilla.

[4 x 10 = 40 marks]

Short Essays

6. Define Neuron. Draw and label different parts of Multipolar neuron.
7. Orbicularis- attachments, nerve supply and actions.
8. Facial artery.
9. Bronchopulmonary segments.
10. Fertilization.
11. Thyroid gland-Relations and blood supply.
12. Curvatures of vertebral column.
13. Extensor retinaculum of hand.
14. Boundaries and contents of bicipital groove.
15. Blood supply to Cerebrum.

[8 x 5 = 40 marks]

Short Answers

16. Enumerate proximal row of carpal bones.
17. Name four structures deep to Deltoid muscle.
18. Mention four ligaments of Knee joint.
19. Draw and label blastocyst.
20. Name the nerves attached to ramus of mandible.
21. Mention four differences between skeletal and cardiac muscles.
22. Draw and label microscopic picture of Hyaline cartilage.
23. Name the muscles supplied by superficial peroneal nerve.
24. Name four duralvenous sinuses.
25. Mention the structures passing through the costal groove of typical rib.

[10 x 2 = 20 marks]

(39) 55

Rajiv Gandhi University of Health Sciences

QP CODE : 2152/2153

FIRST YEAR B.P.T.DEGREE EXAMINATION,September-2005
PHYSIOLOGY, THERAPEUTIC PHYSIOLOGY AND BIOCHEMISTRY

Time : 3 hours

Maximum Marks :100 Marks

Your Answer shall be specific to Questions Asked
Draw Neat and Labelled Diagrams where ever Necessary.

SectionA (Physiology)
(50 marks)

Long Essays

1. Describe briefly the mechanism of coagulation of blood.
2. Describe briefly the mechanism of transport of oxygen in the blood and its delivary to the tissues.
3. Describe the connections and functions of cere bellum.

[2 x 10 = 20 marks]

Short Essays

4. Trace the path way of accomadation reflex. Explain the changes occuring during accomadation.
5. Explain the Ionic basis of nerve action potential.
6. Regulation of cardiac output in. brief.
7. Define synapse. What are the types . Explain the properties of a synapse.
8. Functions of destrogen and progesterone.

[4 x 5 = 20 marks]

Short Answers

9. Mention two cardio-Respiratory effects of exercise.
10. What tracts carry the sensation of touch.
11. Write a diagram of a reflex arc and label its parts.
12. Mention four functions of the kidney.
13. Name any two git hormones and mention one action of each.

[5 x 2 = 10 marks]

SectionB (Biochemistry)
(50 marks)

Long Essays

14. What are enzymes? Classify them, with one example of each class.
15. Describe classification of carbohydrates; give examples.
16. Discuss the role of hormones in regulation of metabolism.

[2 x 10 = 20 marks]

Short Essays

17. Functions of compound lipids.
18. Contractile proteins in muscle.
19. Electrophoresis
20. Functions of riboflavin.
21. Role of creatine in muscle.

[4 x 5 = 20 marks]

Short Answers

22. Name ketone bodies. Where are they produced and utilized?
23. Define biological value of protens. Give one example of the protien with high biological value.
24. What is denaturation of proteins? What is its effect?
25. Write note on liver function tests.
26. State Law of absorption

[5 x 2 = 10 marks]

(40) 56

Rajiv Gandhi University of Health Sciences

QP CODE : 2154

FIRST YEAR B.P.T. DEGREE EXAMINATION,September-2005
MEDICAL ELECTRONICS & COMPUTER APPLICATIONS (Theory Paper)
(Revised Scheme (1997-98 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. A)What is the Primary and secondary Memory
   B)What is the Difference between Primary and secondary Device
   C.)List the different type of Storage Devices
2. A)What is the Hardware ?What is the Storage Device ?
   B)Explain the Any 2 input and output Devices
3. Define Electric Shock .Describe the effects,Treatment,Prevention of shock?

[2 x 10 = 20 marks]

Short Essays

4. What is input device . Describe the different type of input devices?
5. What are functions of cpu
6. Give the importances of computerising the medical records
7. What is a virus ? How can you cure a virus attack?
8. What are the application of computers in the field of physiotherapy?
9. Explain the Phenomena of thermionic emmission
10. What are the functions of a static transformer
11. Write a note on magnatron
12. List the pre cautions to be taken while treating with low frequency currents
13. Write a note on safeety device

[8 x 5 = 40 marks]

Short Answers

14. Define UV rays
15. State the lenz's law
16. Whate is RMS valve of sine wave
17. What is the thermal effect of electric current
18. Give 2 uses of a conductor
19. How is data represented with in a computer
20. Give the importance of computraised EMG
21. What is a flow chart
22. List two types of BUS connections used in a system
23. Define secondary memory



[10 x 2 = 20 marks]

57

Rajiv Gandhi University of Health Sciences

QP CODE : 2155/2156

FIRST YEAR B.Sc. (PHYSIOTHERAPY) DEGREE EXAMINATION,October-2005

PSYCHOLOGY AND SOCIOLOGY

(Revised Scheme (1998 batch onwards))

Time : THREE HOURS Maximum Marks :80 Marks

Your answer shall be specific to the questions asked. Use seperate naswer books for Sections A and B.

Draw neat and labelled diagrams wherever necessary.

SectionA (Psychology)

(40 marks)

Long Essays

1. Explain the growth and development pattern of behaviour from infancy to old age?
2. Define learning and indicate effective method of learning.

[1 x 10 = 10 marks]

Short Essays

3. Importance of heridity and environment
4. Branches of psychology
5. Define thinking and write a note on the traitus of creative people
6. Leadership styles
7. Personality development

[4 x 5 = 20 marks]

Short Answers

8. Mention the schools of psychology
9. Psychotherapy
10. Introspection
11. Self esteem
12. Attention

[5 x 2 = 10 marks]

SectionB (Sociology)

(40 marks)

Long Essays

13. Discuss the factors of social change
14. Explain the causes of over population and suggest remedial measures

[1 x 10 = 10 marks]

Short Essays

15. Scope of sciology
16. Social security in India
17. Medical social wórker
18. Characterestics of primary groups
19. Agencies of socialization

[4 x 5 = 20 marks]

Short Answers

20. The geriatric problem
21. Social change and stress
22. Nuclear family
23. Public opinion poll method
24. Anthropology

[5 x 2 = 10 marks]

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(402) 58

Rajiv Gandhi University of Health Sciences

QP CODE : 2157

FIRST YEAR B.Sc. (PHSIOTHERAPY) DEGREE EXAMINATION,October-2005

BIO-MECHANICS OF HUMAN MOTION

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. Describe the mechanically related structural components of hip and discuss the stability of hip joint in single leg stance.
2. What is lever? Write about different variables of lever in relation to human body. Write the application of levers in physiotherapy.
3. Describe breather. Write about the breathing mechanism in detail.
4. what is elasticity? What is significance of Hooke's law? Discuss its application in physiotherapy.
5. Describe goniometry principles. Discuss techniques in case of shouder joint.

[4 x 10 = 40 marks]

Short Essays

6. What is centre of gravity. How does it vary with body position? Explain with examples.
7. What is power grip? How does it vary from precision grip?
8. Describe ground reaction force.
9. Write the mechanical principles of pulleys and polley systems used in physiotherapy
10. Describe Newton's laws of motion. Explain one in detail with examples.
11. Explain lumbo-pelvic rhythm.
12. Define passive insufficiency . Explain in detail with proper examples.
13. Write a note on phasic & tonic muscles. Give appropriate examples.
14. Define & describe friction with its application in physiotherapy.
15. Write a short note on open & closed kinematic chain with appropriate examples.

[8 x 5 = 40 marks]

Short Answers

16. Define axis & plane.
17. Define carrying angle.
18. Write two properties of force.
19. Explain line of gravity.
20. Define step length
21. Define power.
22. Discuss about quadriceps table.
23. Principles and uses of CPM.
24. Define Inertia.
25. Define equilibriu..

[10 x 2 = 20 marks]

