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Rajiv Gandhi University of Health Sciences, Karnataka

First year B.P.T Degree Examination - March 2009

Time: Three Hours **Max. Marks: 100 Marks**

ANATOMY (RS-3 & RS-4)

Q.P. CODE: 2701

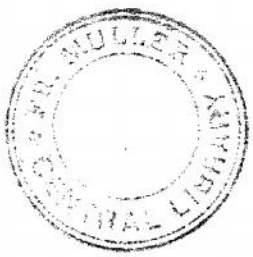
Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Describe the radial nerve under the following headings a) Origin b) Course c) Relations d) Branches e) Applied anatomy
2. Describe the sulci and gyri on superolateral surface of cerebral hemisphere
3. Describe the knee joint under the following headings a) Type and articulation b) Ligaments c) Menisci d) Locking & unlocking of knee

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Quadriceps muscle
5. Cubital fossa
6. Internal capsule
7. Venous drainage of heart
8. Describe the movements of TMJ
9. Briefly describe the intervertebral disc
10. Distribution of ulnar nerve in the hand
11. Describe upper end of tibia
12. Greater omentum
13. Intercostals muscles
14. Describe the carpal tunnel and its clinical anatomy
15. Femoral artery in the femoral triangle
16. Clavipectoral fascia
17. Evertors of foot



SHORT ANSWERS **10 x 2 = 20 Marks**

18. Name the structures passing through jugular foramen
19. Arch of aorta
20. Rotator cuff
21. Attachments of tibialis anterior
22. Fertilization
23. Hyaline cartilage
24. Branches of axillary artery
25. Innervation of Pleura
26. Corpus callosum
27. Dermatome

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Rajiv Gandhi University of Health Sciences, Karnataka

First year B.P.T. Degree Examination – March 2009

Time: Three Hours **Max. Marks: 100 Marks**

HUMAN PHYSIOLOGY (RS-3 & RS-4)

Q.P. CODE: 2702

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. List the hormones secreted by the pituitary gland. Describe the actions of the posterior pituitary hormones
2. Describe the functional division of cerebellum and explain the cerebellar functions
3. Explain the nervous regulation respiration

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Explain the causes and features of cushings syndrome
5. Describe briefly the phases of ovarian cycle
6. Trace the pathway for pain from the hand
7. Mention the characteristic features of coronary blood flow
8. Trace the pathway for papillary light reflex
9. Mention the normal resting membrane potential in a nerve and the ionic basis for it
10. Define timed vital capacity and describe the factors affecting vital capacity
11. Describe the structure and features of Juxta-glomerular apparatus with a neat diagram
12. Describe the intrinsic pathway of blood coagulations
13. Mention the stages of deglutition and describe the second stage of deglutition
14. Define stroke volume. Explain the effect of venous return on stroke volume
15. Describe the physiological actions of growth hormone
16. Explain the mechanism by which body heat is conserved
17. Differentiate between UMNL and LMNL

SHORT ANSWERS **10 x 2 = 20 Marks**

18. Name the different types of blood group
19. Define PCV and give its normal value
20. Define Frank-starling's law
21. Presbyopia
22. Generator potential
23. Differentiate between diabetes mellitus and diabetes insipidus
24. Draw the structure of neuron
25. Define rheobase and chronaxie
26. Hemophilia
27. Define jaundice

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Rajiv Gandhi University of Health Sciences, Karnataka

First year B.P.T. Degree Examination - March 2009

Time: Three Hours **Max. Marks: 80 Marks**

BIO-CHEMISTRY (RS-3 & RS-4)

Q.P. CODE: 2703

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Discuss the synthesis of glucose from non-carbohydrate sources
2. Give an account of fatty acid oxidation
3. What are enzymes? Describe the various factors affecting enzyme activity

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Digestion and absorption of protein
5. Phospholipids
6. Functions of calcium
7. Define Basal Metabolic Rate (BMR). Describe the factors affecting BMR
8. Biochemical functions of Vitamin A
9. Describe the role of kidney in the regulation of blood pH
10. Describe the important compounds derived from cholesterol
11. What are carbohydrates? Classify them with suitable examples
12. Polysaccharides
13. Respiratory alkalosis

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SHORT ANSWERS **10 x 2 = 20 Marks**

14. Proenzymes
15. Muscle proteins
16. Lactose
17. Isoelectric pH
18. Transfer RNA
19. Co-enzymes of a) Riboflavin b) Pyridoxin
20. Bile salts
21. Mention the important electrolytes in serum and their normal values
22. Transmethylation
23. Addison's disease

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Rajiv Gandhi University of Health Sciences, Karnataka

First year B.P.T. Degree Examination – March 2009

Time: Three Hours **Max. Marks: 80 Marks**

BIOMECHANICS (RS-3)

Q.P. CODE: 2704

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. What is a lever? Explain the various types of levers with examples and add a note on application of levers in physiotherapy
2. Define posture. List out the types of posture and explain the various postural deviations of spine
3. Discuss the biomechanics of knee joint

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Describe the factors that provide stability to the hip joint
5. Explain the role intervertebral disc and its biomechanical significance
6. Discuss active and passive insufficiency with examples
7. Biomechanics of shoulder joint
8. List out the types of prehension, explain any two in detail
9. Explain the bucket handle and pump handle movement of rib cage
10. Movement analysis of squatting
11. Explain the use of springs and pulleys in physiotherapy
12. What is equilibrium? Discuss the types of equilibrium with examples
13. Discuss the various types of muscle contraction with examples

SHORT ANSWERS **10 x 2 = 20 Marks**

14. Any two effects of pregnancy of posture
15. Any two effects of immobilization on muscle
16. Define ideal posture
17. Lordosis
18. Waddling gait
19. Eccentric exercise
20. Functional significance of palmar arches
21. Double support
22. Types of friction
23. Two examples for closed kinematic chain exercises of upper limb

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Rajiv Gandhi University of Health Sciences, Karnataka

First year B.P.T. Degree Examination – March 2009

Time: Three Hours **Max. Marks: 80 Marks**

GENERAL PSYCHOLOGY & SOCIOLOGY
(RS-3 & RS-4)

Q.P. CODE: 2705 & 2706

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

Use separate answer books for section A and section B

Q.P. Code: 2705 – Section 'A' - General Psychology (40 Marks)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define intelligence. Explain the types of intelligence tests
2. Define attention. Explain the factors that deterimine attention

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Define mechanism
4. Introspection method
5. Behaviourism
6. Characteristics of learning
7. Explain the importance of psychology in physiotherapy

SHORT ANSWERS **5 x 2 = 10Marks**

8. Heredity
9. clinical psychology
10. Paraesthesia
11. Reinforcement
12. Attitude

Q.P. Code: 2706 – Section 'B' - Sociology (40 Marks)

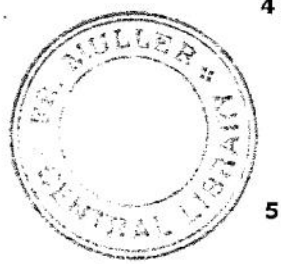
Use separate answer book

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define social change. Explain any two theories of social change
2. Explain the problems faced by over population

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Types of family and its merits
4. Explain the health effects of industrialization
5. Difference between sociology and psychology
6. Socialization
7. Explain the meaning and definition of family



SHORT ANSWERS **5 x 2 = 10Marks**

8. Belief
9. In group
10. Patriarchal family
11. Social institution
12. Sociology and anthropology

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