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2702_2012_1_S103

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – Feb / Mar 2012

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. Define cardiac output. Describe the factors regulating cardiac output
2. Discuss oxygen transport in the blood. Add a note on oxygen dissociation curve
3. Discuss how the normal calcium level is regulated in the body. Add a note on Tetany

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

4. Describe the formation, composition and functions of lymph
5. Describe the Pathophysiology and clinical features of Myasthenia Gravis. Add a note on its management
6. Write a short note on pacemaker potential
7. Explain the movements of stomach. Mention the factors influencing gastric emptying
8. Draw a spirogram indicating various lung volumes and capacities
9. What is direct and indirect light reflex? Add a note on Argyl Robertson's pupil
10. Describe the various stages of leucopoiesis
11. Describe the reabsorption of water in the renal tubules
12. Describe the structure and function of the vestibular apparatus
13. Enumerate the properties of receptors
14. Explain the immediate and delayed effects of complete transaction of spinal cord
15. Describe the functions of middle ear
16. Explain the interaction of the respiratory centres in respiration
17. List the secondary sexual features in females during puberty

SHORT ANSWERS 10 x 2 = 20 Marks

18. What is dead space? Classify the types
19. List two hormones of the placenta and their functions
20. Draw a labeled diagram of the neuron
21. List three functions of colon
22. Enumerate two thyroid function tests
23. Define and classify memory
24. What is Triple response?
25. Define pulse giving the normal value
26. List three clinical features of cretinism
27. What is active and passive immunity?

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2703_2012_1_S222

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – Feb / Mar 2012

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. Explain Krebs urea cycle. What is the significance of blood urea levels
2. Describe the chemistry, sources, RDA, Metabolic functions and deficiency symptoms of vitamin D
3. What are ketone bodies? Explain how they formed and utilized. Add a note on ketoacidosis

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

4. Classify carbohydrates with suitable examples
5. Structure & functions of t RNA
6. Biological role of Glycogenesis
7. Fluid mosaic model of cell membrane
8. Collagen
9. Biological important compounds formed from tyrosine
10. Biological important peptides
11. Explain enzyme inhibition and their clinical significance
12. Digestion and absorption of dietary carbohydarates
13. Lipoproteins, classification and functions

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

14. Normal levels of serum calcium and cholesterol
15. Glycosuria
16. Normal values of a) Blood urea b) Blood glucose
17. Role of ADH in regulation of water balance
18. Scurvy
19. Diagnostic enzymes in myocardial infarction
20. Blood buffers
21. Respiratory quotient
22. Functions of selenium & molybdenum
23. Conjugated proteins with examples

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2705_2012_1_S183

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – Feb / Mar 2012

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. What is psychology? Explain the role of heredity and environment in physical and psychological development.
2. What is personality? Explain the assessment of personality

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

3. What is attitude? Explain the development of attitude
4. What is creative thinking? Describe the steps in creative thinking
5. Describe the Abraham Maslow's theory of need hierarchy
6. Write a note on organization of perception
7. Explain the role of observation method in physiotherapy

SHORT ANSWERS 5 x 2 = 10Marks

8. Frustration
9. Super ego
10. Deductive reasoning
11. Projection
12. Emotion

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 sociology? Explain the scope and uses of sociology
2. Define social group? Explain the importance of social group in society

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

3. Characteristic of joint family
4. Write a note on unemployment
5. Explain any two methods of social investigations.
6. Influence of culture in health and illness
7. Characteristics of social change

SHORT ANSWERS 5 x 2 = 10Marks

8. Tribal sociology
9. Social security
10. Urban community
11. Patriarchal family
12. socialization

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2707_2012_1_S106

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination - Feb / Mar 2012

Time: Three Hours | Max. Marks: 100 Marks

BIO-MECHANICS

(Revised Scheme – 4)

Q.P. CODE: 2707

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

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

1. List out the joints forming shoulder complex. Explain about scapulo humeral rhythm in detail
2. Explain in detail about the Biomechanics of lumbar spine
3. Define gait and write the components of gait cycle

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

4. Write about the resolution of force
5. Describe the extensor mechanism of finger in detail
6. Explain the kinematics of chest wall
7. Explain the screw home mechanism
8. Analysis of fundamental position of hanging with its muscle work
9. Discuss the supination and pronation twist
10. Write the factors affecting muscle function
11. Mobility of elbow joint
12. Explain the chest wall motions during normal breathing
13. Write a note on ankle joint
14. What is stress and strain? Explain the load / deformation curve with example
15. Analyze the muscle forces at hip during unilateral stance
16. Explain the role of intervertebral disc
17. Define equilibrium. Explain the types of equilibrium with examples

SHORT ANSWERS — 10 x 2 = 20 Marks

18. Define balance
19. Define Q angle
20. What is spring ligament?
21. Define carrying angle
22. What is ground reaction force?
23. What is functional position of the wrist and hand?
24. Define power and energy
25. Define closed pack position
26. What are functions of arches of foot?
27. What is patella alta?

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