

Rajiv Gandhi University of Health Sciences, Karnataka
I B.D.S Degree Examination - 26 MAR 2021

Time: Three Hours

Max. Marks: 35

HUMAN PHYSIOLOGY (RS3)

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

LONG ESSAYS

1X10=10 Marks

Q.1 Explain the action of growth hormones. Add a note on acromegaly.

SHORT ESSAYS

3X5=15 Marks

Q.2 Coronary circulation.

Q.3 Hypoxia.

Q.4 Mechanism of urine formation.

SHORT ANSWERS

5X2=10 Marks

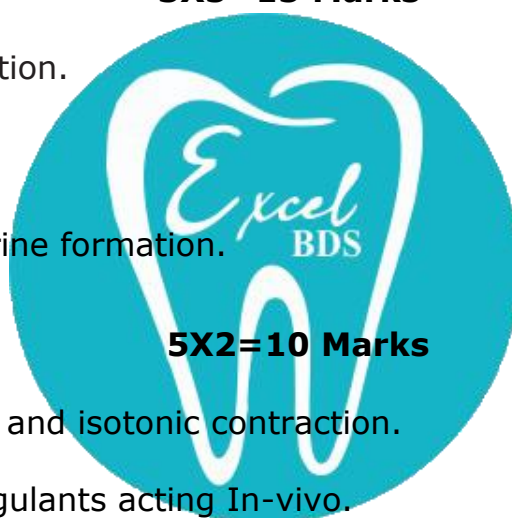
Q.5 Define isometric and isotonic contraction.

Q.6 Mention anticoagulants acting In-vivo.

Q.7 Mention methods of permanent family planning.

Q.8 Define presbyopia.

Q.9 What is referred pain.



Rajiv Gandhi University of Health Sciences, Karnataka
I B.D.S Degree Examination - 21 NOV 2020

Time: Three Hours

Max. Marks: 35

HUMAN PHYSIOLOGY (RS3)

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

LONG ESSAYS 1X10=10 Marks

Q.1. Name the hormones of posterior pituitary. Explain the functions of each of them. Mention the features of Diabetes insipidus.

SHORT ESSAYS 3X5=15 Marks

Q.2. Explain second phase of deglutition.

Q.3. Describe oxygen haemoglobin dissociation curve. List the factors affecting it.

Q.4. Explain the Intrinsic mechanism of coagulation.

SHORT ANSWERS 2X5=10 Marks

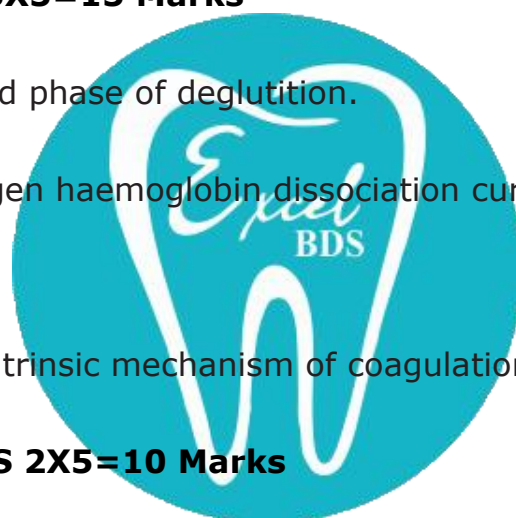
Q.5. List the functions of middle ear.

Q.6. Mention functions of testosterone.

Q.7. Define GFR. Mention its normal value.

Q.8. What is Referred pain. Mention the theories of referred pain.

Q.9. Draw and label ECG.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination – Dec 2019

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

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

LONG ESSAYS

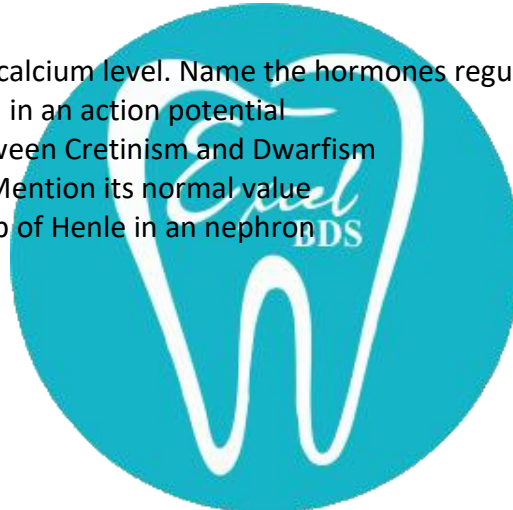
- Name the respiratory centres. Explain the neural regulation of respiration

SHORT ESSAYS

- Explain functions of pancreatic juice
- Trace the taste pathway
- Describe stages of erythropoiesis. List the factors affecting it

SHORT ANSWERS

- Mention normal serum calcium level. Name the hormones regulating it
- Define refractory period in an action potential
- List the differences between Cretinism and Dwarfism
- Define cardiac output. Mention its normal value
- List the functions of loop of Henle in a nephron



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination – June 2019

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

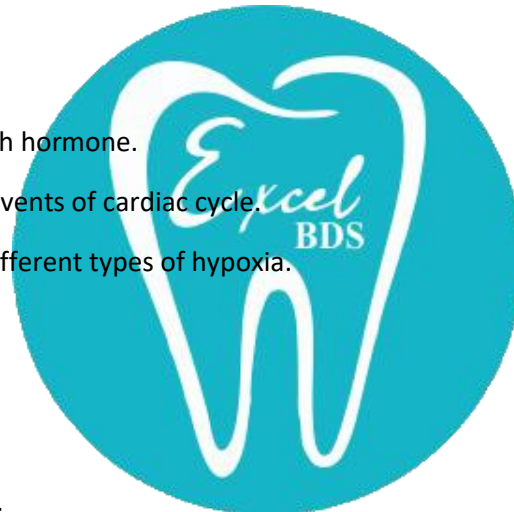
- Explain the Intrinsic mechanism of coagulation. What is hemophilia.

SHORT ESSAYS

- Explain functions of growth hormone.
- Describe the mechanical events of cardiac cycle.
- Define and describe the different types of hypoxia.

SHORT ANSWERS

- List the functions of saliva.
- Name the muscle proteins.
- What is Myopia. How it is corrected.
- Neuroglia.
- Define ESR.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - Dec - 2018

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

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

LONG ESSAYS

- List the hormones of adrenal cortex. Explain the actions of glucocorticoids and add a note on Cushing's syndrome.

SHORT ESSAYS

- Describe the lung volumes and capacities with the help of a labeled diagram.
- Describe the conducting system of the heart.
- What is Referred pain. Explain the theories of referred pain.

SHORT ANSWERS

- What is myopia and hypermetropia. How are they corrected.
- Mention any two anticoagulants with their mechanism of action.
- List female contraceptive methods.
- List the functions of Loop of Henle in nephron.
- Define active transport with example.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination – July 2018

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

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

LONG ESSAYS

- List the hormones from Anterior Pituitary. Explain the functions and disorders associated with any of them.

SHORT ESSAYS

- Counter current multiplier.
- Functions of Gastric juice.
- Explain the factors affecting venous return.

SHORT ANSWERS

- Define
 - (a) Residual volume
 - (b) Inspiratory reserve volume.
- Phagocytosis.
- Functions of middle ear.
- What is
 - (a) Tubectomy
 - (b) Vasectomy
- What is Isotonic and Isometric muscle contraction.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - Dec - 2017

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

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

LONG ESSAYS

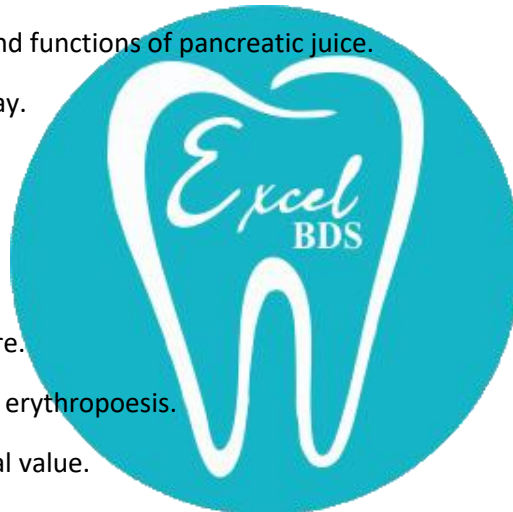
- Describe the hormonal regulation of serum calcium.

SHORT ESSAYS

- Tabulate the differences between UMN and LMN lesions.
- Explain the composition and functions of pancreatic juice.
- Describe the visual pathway.

SHORT ANSWERS

- Draw and label a sarcomere.
- List four factors regulating erythropoiesis.
- Define GFR. Give its normal value.
- Draw and label an ECG.
- Enumerate two functions of surfactant.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - Aug - 2017

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

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

LONG ESSAYS

- Explain the synthesis of Thyroxine. Add a note on thyrotoxicosis.

SHORT ESSAYS

- Short term regulation of blood pressure.
- Artificial respiration.
- Function of saliva.

SHORT ANSWERS

- Draw taste pathway.
- Broca's area.
- Osteoporosis.
- Draw a reflex arc.
- Name the Plasma Proteins.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - Dec - 2016

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

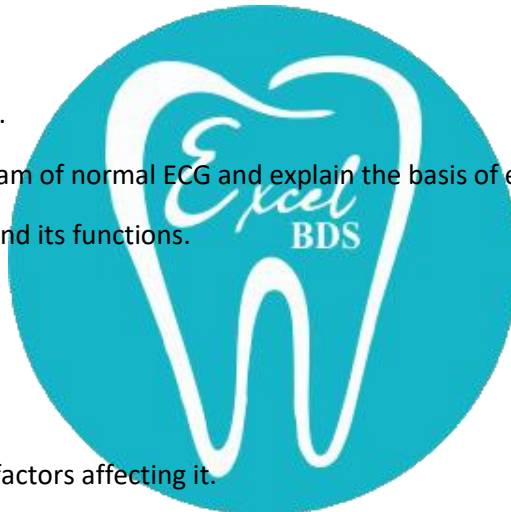
- Explain in detail the mechanism of Clotting of Blood.

SHORT ESSAYS

- Oxygen-dissociation Curve.
- Draw a neat labelled diagram of normal ECG and explain the basis of each wave and intervals.
- Describe the frontal lobe and its functions.

SHORT ANSWERS

- Define GFR. Mention two factors affecting it.
- Actions of Insulin on carbohydrate and Lipid metabolism.
- Myopia and its correction.
- Composition of Saliva.
- Two actions of testosterone.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination – June 2016

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

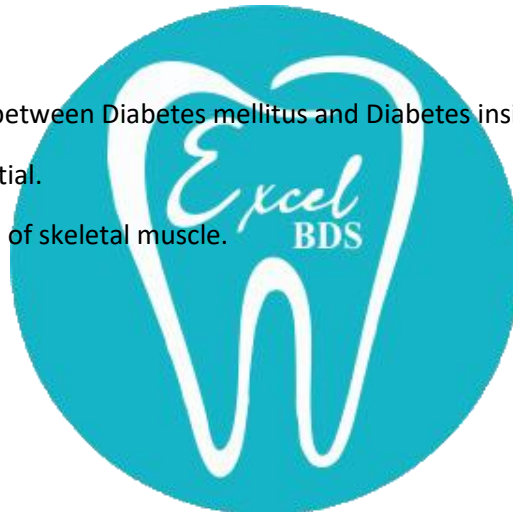
- Explain the events in Neuromuscular transmission. Add a note on drugs acting on it.

SHORT ESSAYS

- What are the differences between Diabetes mellitus and Diabetes insipidus.
- Ionic basis of action potential.
- Explain any five properties of skeletal muscle.

SHORT ANSWERS

- Lung compliance.
- Functions of Saliva.
- Functions of tympanic membrane.
- What is
 - (a) Menarche
 - (b) Menopause
- Erythropoietin.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination – July 2015

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

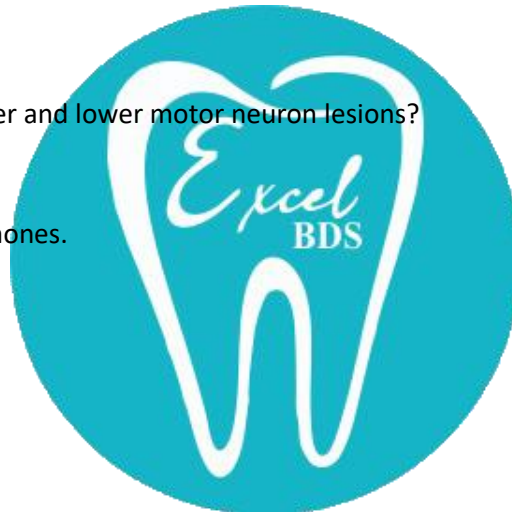
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

- Explain in detail the composition, functions and regulation of Salivary secretion.

SHORT ESSAYS

- What are the signs of upper and lower motor neuron lesions?
- Errors of Refraction.
- Functions of Thyroid Hormones.



SHORT ANSWERS

- Landsteiner's Law.
- Dead Space.
- Lysosomes.
- Hypertension.
- Reflex Arc.

Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - Dec - 2015

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

- Explain the synthesis of Thyroxine. Add a note on thyrotoxicosis.

SHORT ESSAYS

- Short term regulation of blood pressure.
- Artificial respiration.
- Function of saliva.

SHORT ANSWERS

- Draw taste pathway.
- Broca's area.
- Osteoporosis.
- Draw a reflex arc.
- Name the Plasma Proteins.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - Dec - 2014

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

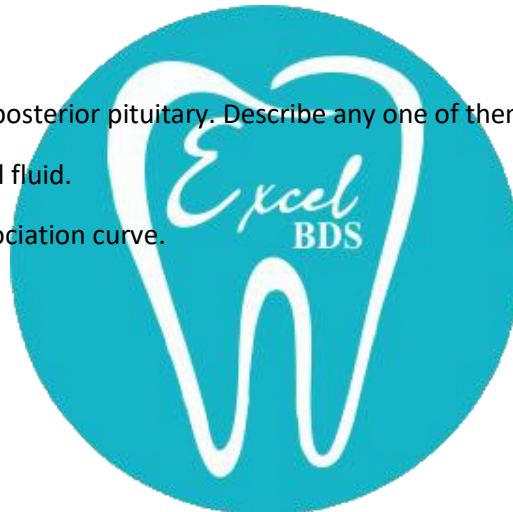
- Define blood pressure. Give the normal values. Explain the regulation of blood pressure.

SHORT ESSAYS

- Hormones secreted from posterior pituitary. Describe any one of them.
- Functions of Cerebrospinal fluid.
- Oxygen haemoglobin dissociation curve.

SHORT ANSWERS

- Agranulocytes.
- List the errors of refraction in eye.
- Types of nephron.
- Actions of Oral contraceptive pills.
- Examples for positive and negative feed back mechanism.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination – June 2014

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

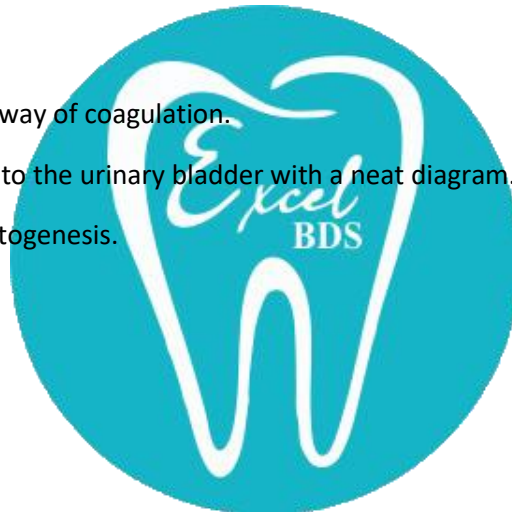
- Describe the composition, functions and regulation of salivary secretion.

SHORT ESSAY

- Describe the intrinsic pathway of coagulation.
- Describe the nerve supply to the urinary bladder with a neat diagram. What is micturition reflex?
- Describe stages of spermatogenesis.

SHORT ANSWERS

- State Landsteiner's laws.
- Define blood pressure. Give normal values.
- List the hormones synthesized by the anterior pituitary.
- Rinne's test.
- Draw and label the sarcomere.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - Dec - 2013

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

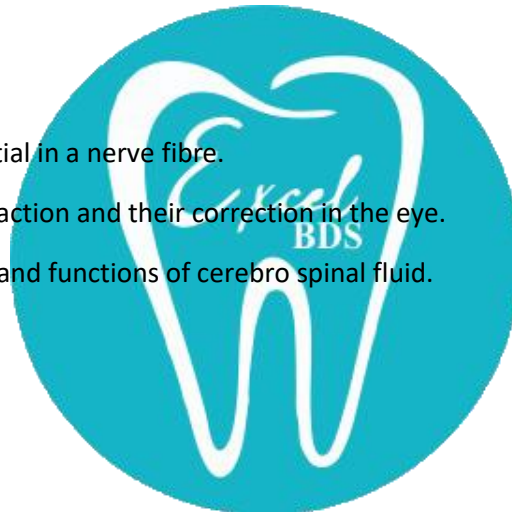
- What is the normal serum calcium level. Name the hormones regulating it. Describe the physiological functions of parathormone.

SHORT ESSAY

- Describe the action potential in a nerve fibre.
- Describe the errors of refraction and their correction in the eye.
- Describe the composition and functions of cerebro spinal fluid.

SHORT ANSWERS

- List four functions of liver.
- Define cardiac output. Give normal values.
- Define and classify dead space.
- List any four temporary methods of contraception in the female.
- Define rheobase and utilization time.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination – June 2013

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

- Define Haemostasis. Explain the intrinsic and extrinsic mechanism of coagulation. Name any two anticoagulants.

SHORT ESSAY

- What are the functional divisions of cerebellum. Give the Functions of each division.
- Renin angiotensin mechanism.
- Actions of parathormone.

SHORT ANSWERS

- Name the muscle proteins.
- What is Gigantism. Give two features of the same.
- Name the types of Hypoxia.
- Give four functions of cerebrospinal fluid.
- Name the conduction tissues of the heart.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination – June 2012

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

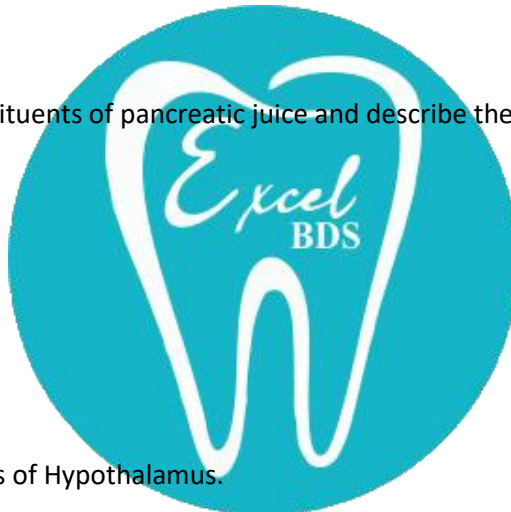
- Describe the location of respiratory center and the regulation of respiration.

SHORT ESSAY

- Name the important constituents of pancreatic juice and describe their functions.
- Trace the taste pathway.
- Contraception in females.

SHORT ANSWERS

- Mention any two functions of Hypothalamus.
- List two features of RBC in Iron deficiency anaemia.
- Give the causes of first and second heart sounds.
- List any two important functions of Glucocorticoids.
- Draw a well labelled electron microscopic diagram of the Glomerular Membrane.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - Dec - 2012

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

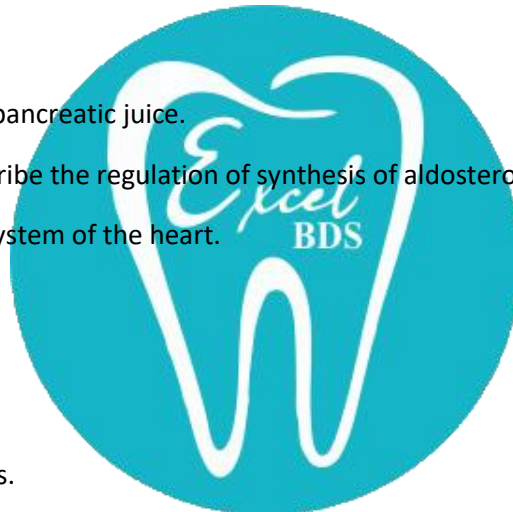
- Describe the stages of erythropoiesis. What are the factors required for erythropoiesis.

SHORT ESSAY

- Describe the functions of pancreatic juice.
- What is aldosterone. Describe the regulation of synthesis of aldosterone.
- Describe the conducting system of the heart.

SHORT ANSWERS

- What is clonus and tetanus.
- Define vital capacity and give normal values.
- List four functions of juxtaglomerular apparatus.
- List any four functions of the stomach.
- List four signs of Parkinson's disease.



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination – June 2011

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

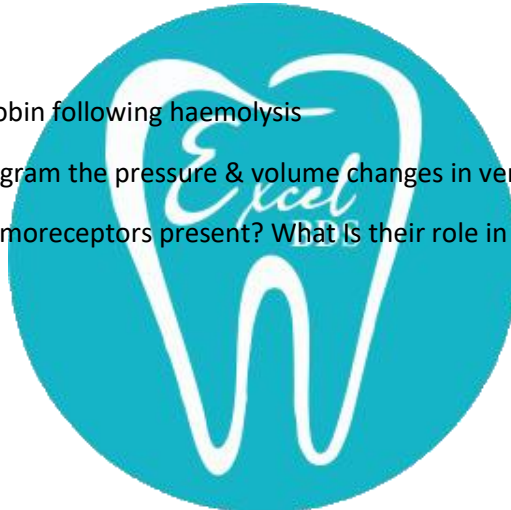
- Describe the functions and regulation of secretion or growth hormone. Add a note on acromegaly

***SHORT ESSAY ***

- Describe fate of haemoglobin following haemolysis
- Describe with help of a diagram the pressure & volume changes in ventricles during cardiac cycle
- Where are peripheral chemoreceptors present? What is their role in regulation of respiration

SHORT ANSWERS

- What is Myopia, how is it corrected
- what is the physiologic basis for pregnancy tests
- Name the different types of movement of small intestine
- Define insulin clearance. What is its significance
- Define the terms Rheobase and Chronaxie



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - Dec - 2011

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

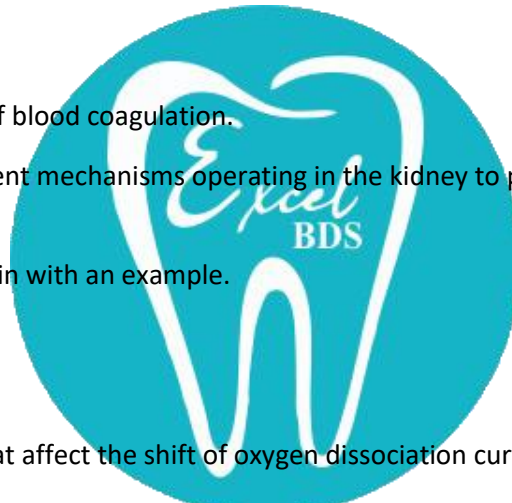
- Describe the cardiac cycle. state the causes of heart sounds occurring during the cycle.

SHORT ESSAY

- Discuss the mechanisms of blood coagulation.
- Describe the counter current mechanisms operating in the kidney to produce hypertonic and hypotonic urine.
- Define homeostasis. Explain with an example.

SHORT ANSWERS

- Enumerate two factors that affect the shift of oxygen dissociation curve to right.
- Name two hormones that help maintain calcium homeostasis.
- Enumerate any two functions of saliva.
- Name two functions of hypothalamus.
- Name the phases of menstrual cycle



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination – June 2010

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY

- Classify hormones. Give the list of anterior pituitary hormones. Explain the actions of ANY ONE of them

SHORT ESSAY

- Define 'timed vital capacity'. Give its normal value.
- Mention a condition in which it is decreased List the important ingredients of bile juice and give their functions
- Define cardiac cycle. Explain the mechanical changes taking place in the left ventricle during different phases of cardiac cycle



SHORT ANSWERS

- Mention any TWO functions of plasma proteins
- List any TWO functions of distal convoluted tubule
- Mention TWO functions of skin
- List TWO endometrial changes occurring during 'proliferative' phase of menstrual cycle
- Give any TWO features of cerebellar lesion

Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - Dec - 2010

Time: Three Hours

Max. Marks: 35 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1179

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

***LONG ESSAY ***

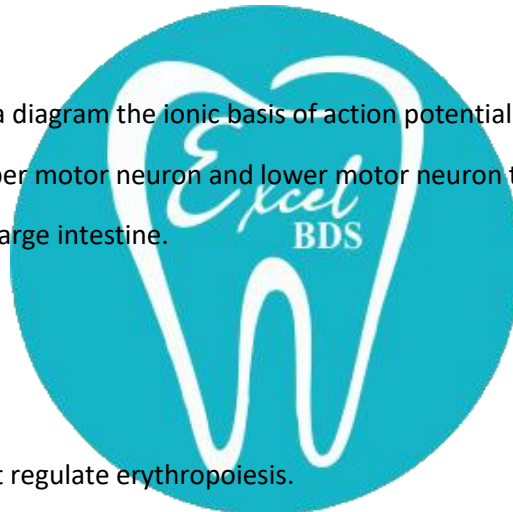
- State the name and location of respiratory centers. Describe their role in normal breathing.

SHORT ESSAY

- Describe with the help of a diagram the ionic basis of action potential.
- Differentiate between upper motor neuron and lower motor neuron type of paralysis.
- Describe the functions of large intestine.

SHORT ANSWERS

- Name any two factors that regulate erythropoiesis.
- Name any two factors that alter the heart rate.
- Enumerate any two functions of glucocorticoids
- Define GFR. State the normal value.
- Name the two types of sweat glands.



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