

80

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

(Note: Both QP Codes 1179 and 1180 are to be, answered within total duration of three hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. List the hormones of Adrenal cortex. Explain the actions of Glucocorticoids and add a note on Cushing's syndrome. (2+5+3)

SHORT ESSAYS

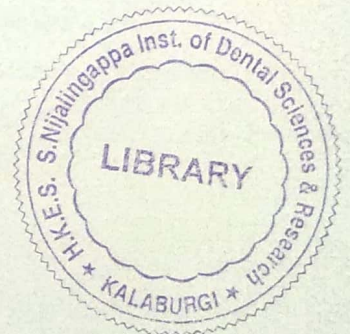
3 x 5 = 15 Marks

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

SHORT ANSWERS

5 x 2 = 10 Marks

5. What is myopia and Hypermetropia? How are they corrected?
6. Mention any two anticoagulants with their mechanism of action.
7. List female contraceptive methods.
8. List the functions of Loop of Henle in nephron.
9. Define active transport with example.



July - 2018

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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

(Note: Both QP Codes 1179 and 1180 are to be, answered within total duration of three hours)

LONG ESSAYS

1 x 10 = 10 Marks

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

SHORT ESSAYS

3 x 5 = 15 Marks

2. Counter current multiplier
3. Functions of Gastric juice
4. Explain the factors affecting Venous return.

SHORT ANSWERS

5 x 2 = 10 Marks

5. Define (a) Residual volume (b) Inspiratory reserve volume.
6. Phagocytosis
7. Functions of middle ear
8. What is (a) Tubectomy (b) Vasectomy?
9. 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

(Note: Both QP Codes 1179 and 1180 are to be, answered within total duration of three hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Describe the hormonal regulation of serum calcium.

SHORT ESSAYS

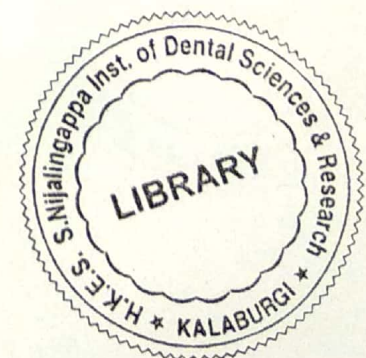
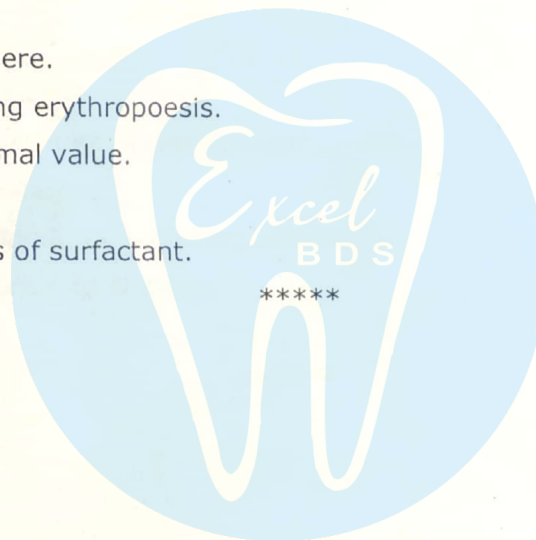
3 x 5 = 15 Marks

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

SHORT ANSWERS

5 x 2 = 10 Marks

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



Dec-16

63



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - <<>>

Time: Three Hours

Max. Marks: 40 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1102

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 1102 and 1103 are to be, answered within total duration of three hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Describe in detail the process of Erythropoiesis. List the factors regulating it.

SHORT ESSAYS

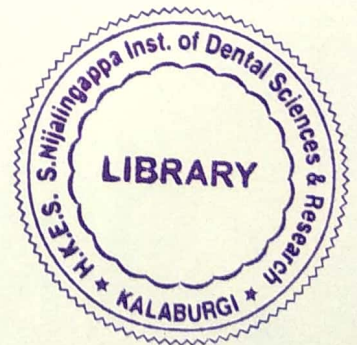
4 x 5 = 20 Marks

2. Family planning methods
3. Draw a neat labelled diagram of Spirogram and explain various Lung volumes and capacities.
4. Name the Hormones of Posterior Pituitary Gland and explain the functions of any one hormone.
5. Taste Pathway

SHORT ANSWERS

5 x 2 = 10 Marks

6. Draw a neat labelled diagram of Neuromuscular Junction.
7. Four Functions of Hypothalamus
8. Define Cardiac Output. Mention two factors affecting it.
9. Draw a neat labelled diagram of Nephron.
10. Functions of Stomach



Aug - 17

68

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

(Note: Both QP Codes 1179 and 1180 are to be, answered within total duration of three hours)

LONG ESSAYS

1 x 10 = 10 Marks

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

SHORT ESSAYS

3 x 5 = 15 Marks

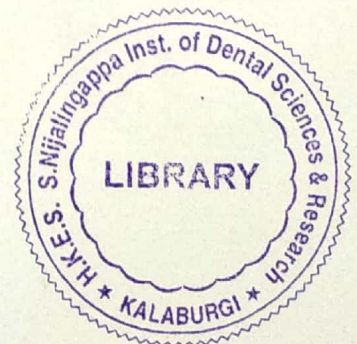
2. Short term regulation of blood pressure
3. Artificial respiration
4. Function of saliva

SHORT ANSWERS

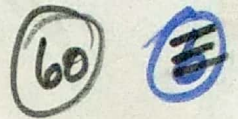
5 x 2 = 10 Marks

5. Draw taste pathway.
6. Broca's area
7. Osteoporosis
8. Draw a reflex arc.
9. Name the Plasma Proteins.





Dec - 16



Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - DEC 2016

Time: Three Hours

Max. Marks: 60 Marks

HUMAN PHYSIOLOGY

Q.P. CODE: 1152

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 1152 and 1153 are to be, answered within total duration of three hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. With diagram, describe the conducting system of the heart.

SHORT ESSAYS

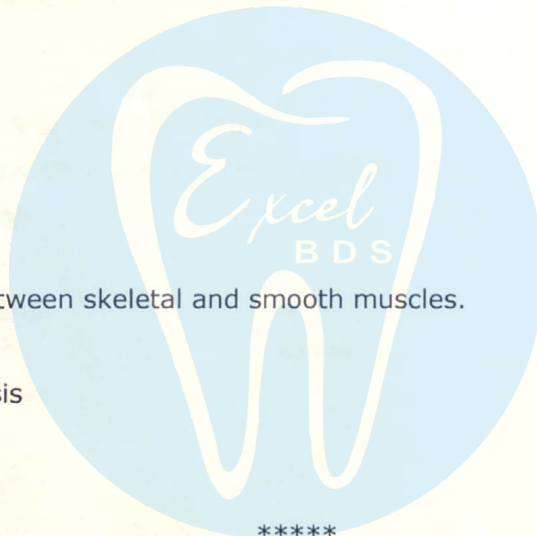
7 x 5 = 35 Marks

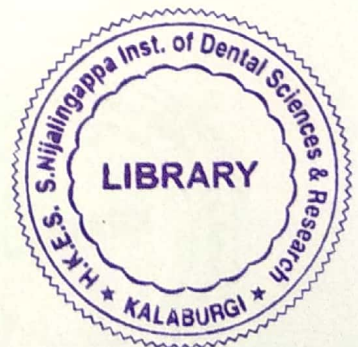
2. Respiratory membrane
3. Growth hormone
4. Phases of deglutition
5. Plasma proteins
6. Baroreceptors
7. Refractive errors
8. Insulin secretion

SHORT ANSWERS

5 x 3 = 15 Marks

9. Write the differences between skeletal and smooth muscles.
10. Dwarfism
11. Steps of Spermatogenesis
12. Peptic ulcer
13. Classify W.B.C.





Dec-16

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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

(Note: Both QP Codes 1179 and 1180 are to be, answered within total duration of three hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Explain in detail the mechanism of Clotting of Blood.

SHORT ESSAYS

3 x 5 = 15 Marks

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

SHORT ANSWERS

5 x 2 = 10 Marks

5. Define GFR. Mention two factors affecting it.
6. Actions of Insulin on Carbohydrate and Lipid metabolism
7. Myopia and its correction
8. Composition of Saliva
9. Two actions of Testosterone



Dec 2014

40

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

(Note: Both QP Codes 1179 and 1180 are to be, answered within total duration of three hours)

LONG ESSAYS

1 x 10 = 10 Marks

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

SHORT ESSAYS

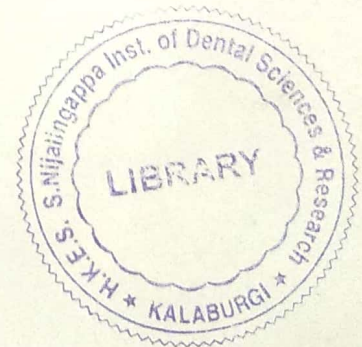
3 x 5 = 15 Marks

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

SHORT ANSWERS

5 x 2 = 10 Marks

5. Agranulocytes
6. List the errors of refraction in eye
7. Types of nephron
8. Actions of Oral contraceptive pills
9. Examples for positive and negative feedback mechanism



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

(Note: Both QP Codes 1179 and 1180 are to be, answered within total duration of three hours)

LONG ESSAYS

1 x 10 = 10 Marks

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

SHORT ESSAYS

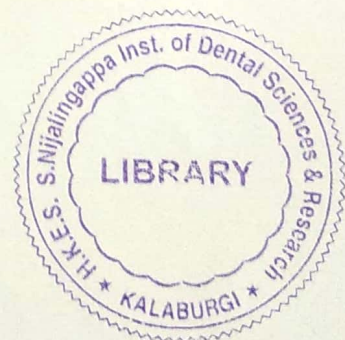
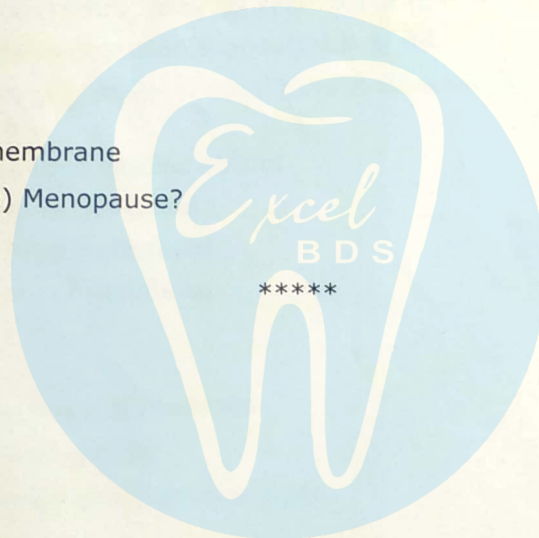
3 x 5 = 15 Marks

2. What are the differences between Diabetes Mellitus and Diabetes Insipidus?
3. Ionic basis of Action potential
4. Explain any five properties of Skeletal muscle.

SHORT ANSWERS

5 x 2 = 10 Marks

5. Lung compliance
6. Functions of Saliva
7. Functions of tympanic membrane
8. What is (a) Menarche (b) Menopause?
9. Erythropoietin



June 20/4

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Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – June 2014

34

[Max. Marks : 60]

Time: 3 Hrs.

HUMAN PHYSIOLOGY

QP Code: 1152

(Note : Both QP Codes 1152 and 1153 are to be answered within total duration of 3 hours)

LONG ESSAY

1 X 10 = 10 Marks

1. Name the hormones of pancreas. Describe the actions of insulin

SHORT ESSAY

7 X 5 = 35 Marks

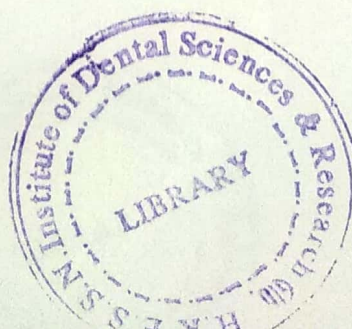
2. Describe the stages of erythropoiesis & what is the role of maturation factors
3. Outline the role of bile in digestion & absorption of fat
4. Describe reabsorption of glucose in renal tubule. Give normal values of renal threshold and tubular maximum for glucose
5. Describe factors regulating cardiac output
6. How is CO_2 transported in the blood
7. Trace pain pathway from right hand
8. Contents and functions of middle ear

SHORT ANSWERS

5 X 3 = 15 Marks

9. Define the terms chronaxie & rheobase
10. Define menarche & menopause
11. What is cross matching? What are the types
12. Mary's law
13. Give normal values of (A) Tidal volume (B) Maximum voluntary ventilation

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June - 2014

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Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – June 2014

32

Time: 3 Hrs.

[Max. Marks : 35]

HUMAN PHYSIOLOGY

QP Code: 1179

(Note : Both QP Codes 1179 and 1180 are to be answered within total duration of 3 hours)

LONG ESSAY

1 X 10 = 10 Marks

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

SHORT ESSAY

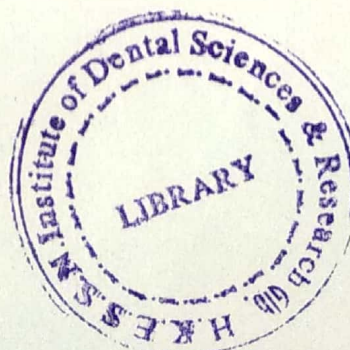
3 X 5 = 15 Marks

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

SHORT ANSWERS

5 X 2 = 10 Marks

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



Dec-2015

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Rajiv Gandhi University of Health Sciences, Karnataka

I B.D.S Degree Examination - DECEMBER 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

(Note: Both QP Codes 1179 and 1180 are to be, answered within total duration of three hours)

LONG ESSAYS

1 x 10 = 10 Marks

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

SHORT ESSAYS

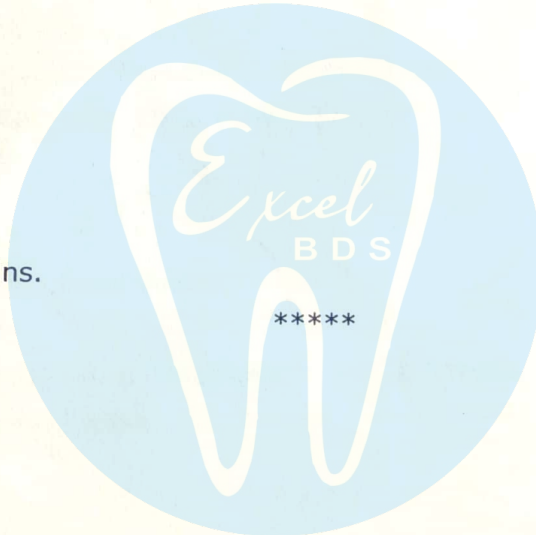
3 x 5 = 15 Marks

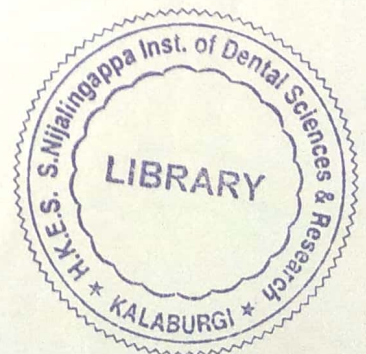
2. Short term regulation of blood pressure
3. Artificial respiration
4. Function of saliva

SHORT ANSWERS

5 x 2 = 10 Marks

5. Draw taste pathway.
6. Broca's area
7. Osteoporosis
8. Draw a reflex arc.
9. Name the Plasma Proteins.





Dec - 2013

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Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – Dec 2013

26

Time: 3 Hrs.

[Max. Marks : 35]

HUMAN PHYSIOLOGY

QP Code: 1179

(Note : Both QP Codes 1179 and 1180 are to be answered within total duration of 3 hours)

LONG ESSAY

1 X 10 = 10 Marks

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

SHORT ESSAY

3 X 5 = 15 Marks

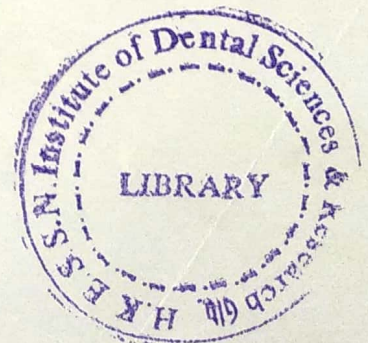
2. Describe the action potential in a nerve fibre.
3. Describe the errors of refraction and their correction in the eye
4. Describe the composition and functions of cerebro-spinal fluid.

SHORT ANSWERS

5 X 2 = 10 Marks

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

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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

(Note: Both QP Codes 1179 and 1180 are to be, answered within total duration of three hours)

45

LONG ESSAYS

1 x 10 = 10 Marks

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

SHORT ESSAYS

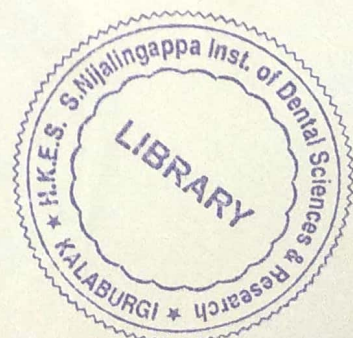
3 x 5 = 15 Marks

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

SHORT ANSWERS

5 x 2 = 10 Marks

5. Reflex Arc
6. Landsteiner's Law
7. Dead Space
8. Lysosomes
9. Hypertension



June 2013

1179_2013_2_S401.doc

Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – Jun 2013

21

Time: 3 Hrs.

[Max. Marks : 35]

HUMAN PHYSIOLOGY

QP Code: 1179

(Note : Both QP Codes 1179 and 1180 are to be answered within total duration of 3 hours)

LONG ESSAY

1 X 10 = 10 Marks

1. Define Haemostasis. Explain the intrinsic and extrinsic mechanism of coagulation. Name any 2 anti coagulants

SHORT ESSAY

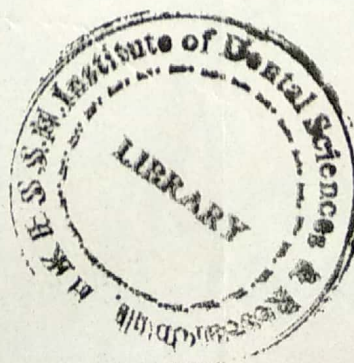
3 X 5 = 15 Marks

2. What are the functional divisions of cerebellum? Give the Functions of each division.
3. Renin angiotensin mechanism
4. Actions of parathormone

SHORT ANSWERS

5 X 2 = 10 Marks

5. Name the muscle proteins.
6. Name the types of Hypoxia
7. What is Gigantism? Give two features of the same.
8. Give four functions of Cerebrospinal fluid.
9. Name the conduction tissues of the heart.



Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination - June / July 2012

16

Time: 3 Hrs.

[Max. Marks : 35]

HUMAN PHYSIOLOGY

QP Code: 1179

(Note : Both QP Codes 1179 and 1180 are to be answered within total duration of 3 hours)

LONG ESSAY

1 X 10 = 10 Marks

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

SHORT ESSAY

3 X 5 = 15 Marks

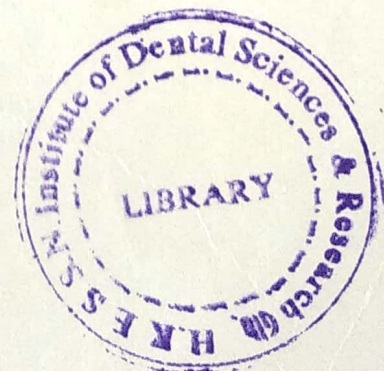
2. Name the important constituents of pancreatic juice and Describe their functions
- RT Trace the taste pathway
4. Contraception in females

SHORT ANSWERS

5 X 2 = 10 Marks

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

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BDS - June - 2012

1179_2012_2_S222

Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination - June / July 2012

Time: 3 Hrs.

[Max. Marks : 35]

HUMAN PHYSIOLOGY



QP Code: 1179

(Note : Both QP Codes 1179 and 1180 are to be answered within total duration of 3 hours)

LONG ESSAY

1 X 10 = 10 Marks

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

SHORT ESSAY

3 X 5 = 15 Marks

2. Name the important constituents of pancreatic juice and Describe their functions
3. Trace the taste pathway
4. Contraception in females

SHORT ANSWERS

5 X 2 = 10 Marks

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



Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – Dec 2012



Time: 3 Hrs.

[Max. Marks : 35]

HUMAN PHYSIOLOGY

QP Code: 1179

(Note : Both QP Codes 1179 and 1180 are to be answered within total duration of 3 hours)

LONG ESSAY

1 X 10 = 10 Marks

1. Describe the stages of erythropoiesis. What are the factors required for erythropoiesis?

SHORT ESSAY

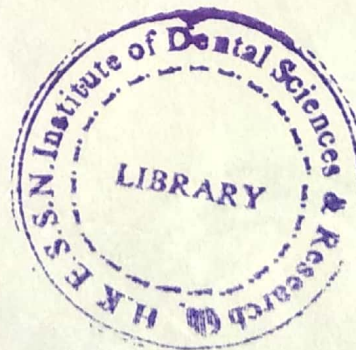
3 X 5 = 15 Marks

2. Describe the functions of pancreatic juice.
3. What is aldosterone? Describe the regulation of synthesis of aldosterone.
4. Describe the conducting system of the heart.

SHORT ANSWERS

5 X 2 = 10 Marks

5. What is clonus and tetanus?
6. List any four functions of the stomach.
7. Define vital capacity and give normal values.
8. List four functions of juxtaglomerular apparatus.
9. List four signs of Parkinson's disease.



Rajiv Gandhi University of Health Sciences

I B.D.S Degree Examination – Dec 2012

3

Time: 3 Hrs.

[Max. Marks : 60]

HUMAN PHYSIOLOGY

QP Code: 1152

(Note : Both QP Codes 1152 and 1153 are to be answered within total duration of 3 hours)

LONG ESSAY

1 X 10 = 10 Marks

1. Describe the stages of Erythropoiesis. Mention the factors necessary for Erythropoiesis

SHORT ESSAY

7 X 5 = 35 Marks

2. Describe the composition and functions of saliva
- Define Glomerular filtration rate. Explain the factors influencing the Glomerular filtration rate
4. With a neat diagram describe the ovarian changes during the menstrual cycle
- With a neat diagram of spiogram explain the various lung volumes and capacities
6. Explain the Baroreceptor mechanism of regulating blood pressure
7. Describe the various functions of Hypothalamus
8. Explain the action of parathyroid hormone on plasma calcium. Add a note on clinical manifestations of Hypocalcaemic tetany

SHORT ANSWERS

5 X 3 = 15 Marks

9. Name types of Neuroglia. What are their functions?
10. Name two types of heart sounds heard by the stethoscope and give the reasons for these heart sounds
11. Name the primary colors of vision. Mention the tests for color vision
12. Draw a neat diagram of the structure of cell membrane and label it
13. Draw a neat diagram of sarcomere and label it

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