

**FIRST B.H.M.S. DEGREE EXAMINATION**  
(New Regulation – From 2015-2016 Batch onwards)

**PAPER V – PHYSIOLOGY - II**

*Q.P. Code : 581505*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Enumerate descending tracts of Spinal cord. Explain in detail the origin, course, termination, function and effect of lesion of the Pyramidal tract.
2. Name the hormones secreted by the Pituitary gland. Explain in detail about the functions and disorders of growth hormone.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Cerebrospinal fluid.
2. Actions of testosterone.
3. Vitamin D.
4. Composition and functions of Saliva.
5. Colour blindness.
6. Movements of stomach.
7. Cholesterol biosynthesis.
8. Cretinism.
9. Composition and functions of Bile.
10. Basal ganglia – components and disorders.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Adrenocortical hormones.
2. Cutaneous receptors.
3. Insulin.
4. Tests for hearing.
5. Define B.M.R.
6. Essential fatty acids.
7. Wernicke's area.
8. Bile salts.
9. Placental Hormones.
10. Lipoproteins.

[LJ 1505]

DECEMBER 2016

Sub.Code :1505

**FIRST B.H.M.S. DEGREE EXAMINATION - SUPPLEMENTARY**  
(New Regulation – From 2015-2016 Batch onwards)

**PAPER V – PHYSIOLOGY - II**

*Q.P. Code : 581505*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Define menstruation. Briefly describe the ovarian and uterine changes during menstruation.
2. Describe the composition, function and regulation of secretion of Pancreatic juice.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Functions of Hypothalamus.
2. Synapse.
3. Vitamin A.
4. Visual pathway.
5. Krebs cycle
6. Tetany.
7. Glands of stomach.
8. Synthesis of Thyroid Hormones.
9. Wallerian Degeneration.
10. Tracts of Goll and Burdach.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Reflex arc.
2. Obesity.
3. Pheochromocytoma.
4. Goitrogens.
5. Anti Diuretic Hormone.
6. Ketone bodies.
7. Internal capsule.
8. Blood brain barrier.
9. Taste buds.
10. Bile salts.

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**FIRST B.H.M.S. DEGREE EXAMINATION**  
(New Regulation – From 2015-2016 Batch onwards)

**PAPER V – PHYSIOLOGY - II**

*Q.P. Code : 581505*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Explain the composition and functions of Gastric juice and give an account of Hormonal regulation of Gastric secretion.
2. Name the hypothalamic nuclei. Explain the connections, Functions and effects of lesions of hypothalamus.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Hexose Mono Phosphate Pathway.
2. Receptors.
3. Sources, Functions and deficiency disorders of Vitamin-D.
4. Tests for hearing.
5. Ptyalin.
6. Tetany.
7. Lactation. Add a note on the effect of Lactation on Menstrual cycle.
8. Hypothyroidism.
9. Placenta and its functions.
10. Disorders of Anterior pituitary gland.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Insulin.
2. Diabetes insipidus.
3. Addisonian crisis.
4. Broca's Area.
5. Corpus luteum.
6. Essential Amino acids.
7. Contractile Proteins.
8. Menopause.
9. Rods and cones.
10. Pellagra.

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**FIRST B.H.M.S. DEGREE EXAMINATION**  
**(Supplementary Examination)**

**PAPER V – PHYSIOLOGY - II**

*Q.P. Code : 581505*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Enlist the hormones secreted by Pancreas. Explain the Functions and Regulations of secretion of Insulin.
2. Draw a Diagram of visual pathway and explain it. Indicate the effects of lesions at different levels of optic pathway.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Colour blindness.
2. Protein Energy Malnutrition.
3. Functions of Basal Ganglia.
4. Parturition.
5. Synapse and its classification.
6. Parathormone.
7. Liver Function test.
8. Vitamin – D.
9. Olfactory Pathway.
10. Cushing syndrome.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Sarcomere.
2. Bile pigments.
3. Contraception.
4. Basal Metabolic Rate.
5. Babinski's sign.
6. Gastric Emptying.
7. Electroencephalogram.
8. Anti – Stress hormones.
9. Thiamine.
10. Puberty.

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[LL 1505]

OCTOBER 2017

Sub. Code: 1505

**FIRST B.H.M.S. DEGREE EXAMINATION**  
(New Regulation – From 2015-2016 Batch onwards)

**PAPER V – PHYSIOLOGY - II**

*Q.P. Code : 581505*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Write the hormones secreted from the Adrenal Cortex. Explain Dysfunction of Adrenal cortex.
2. Explain Menstrual cycle?

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Liver Functions Test.
2. TCA cycle.
3. Myxoedema.
4. Enzymes.
5. Jaundice.
6. Gastric emptying.
7. Physiology of sleep.
8. Functions of cerebellum.
9. Gastrointestinal Hormones.
10. Digestion and absorption of protein.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Brocas area.
2. Kernicterus.
3. Aphasia.
4. Functions of Frontal lobe.
5. Scurvy.
6. Reflex Arc.
7. Deglutition.
8. Obesity.
9. Tubectomy.
10. Pancreatic juices.

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[LL 1505]

DECEMBER 2017

Sub. Code: 1505

**FIRST B.H.M.S. DEGREE EXAMINATION**  
(Supplementary Examination)

**PAPER V – PHYSIOLOGY - II**

*Q.P. Code : 581505*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Describe the functions of small Intestine and its various movements.
2. Define the nuclei and functions of the Hypothalamus.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Functions of Placenta.
2. Functions of CSF.
3. Growth Hormone.
4. Sources, functions and deficiency of Vitamin C.
5. Myasthenia gravis.
6. Saltatory conduction.
7. Functions of thalamus.
8. Bile and its function.
9. Pavlov's pouch.
10. Auditory pathway.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Ketone bodies.
2. Neuro muscular junction.
3. Propagation of nerve impulse.
4. Mastication.
5. Menopause.
6. Babinski sign.
7. Safe period.
8. MTP.
9. Diabetes Mellitus.
10. Define and Types of Receptors.

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**FIRST B.H.M.S. DEGREE EXAMINATION**  
(New Regulation – From 2015-2016 Batch onwards)

**PAPER V – PHYSIOLOGY - II**

*Q.P. Code : 581505*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Enumerate the descending tracts of spinal cord. Describe in detail the pyramidal tracts. Write a note on effects of upper motor neuron and lower motor neuron lesions.
2. Describe the Synthesis, storage, release, transport, Functions and regulation of secretion of thyroid hormones.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Fetal circulation.
2. Secondary sexual characters in males.
3. Basal ganglia.
4. Gluconeogenesis.
5. Vomiting.
6. Limbic System.
7. Errors of Refraction.
8. Hormonal Regulation of Menstrual cycle.
9. Synapse.
10. Organ of corti.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Rickets.
2. Peristalsis.
3. Ovulation.
4. Tests for hearing.
5. Two differences between liver bile and gall bladder bile.
6. Contraceptive methods in Females.
7. Enterohepatic circulation.
8. Olfactory pathway.
9. Cholecystokinin.
10. Corpus luteum.

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[LN 1505]

OCTOBER 2018

Sub. Code: 1505

**FIRST B.H.M.S. DEGREE EXAMINATION**  
(New Regulation – From 2015-2016 Batch onwards)

**PAPER V – PHYSIOLOGY - II**

*Q.P. Code : 581505*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. What is Menstrual cycle? Explain in detail about structural and hormonal changes during Menstrual cycle.
2. Define Glycolysis. Explain an aerobic glycolysis with its energetic and regulation.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Lipoproteins.
2. Movements of Stomach.
3. Functions of Oestrogen.
4. Synthesis of thyroid hormones.
5. Actions of Catecholamines.
6. Cerebrospinal Fluid – Formation, Circulation and Function.
7. Functions of cerebellum.
8. Disorder of Speech.
9. Oxytocin – its secretion and actions.
10. Succus entericus.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Neurotransmitters.
2. Mastication.
3. Aldosterone escape.
4. Ketone bodies.
5. Saltatory Conduction.
6. Chylomicron.
7. Safe period.
8. Blood Brain Barriers.
9. Functions of HCL.
10. Neuroendocrine reflex.

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[LP 1505]

OCTOBER 2019

Sub. Code: 1505

**FIRST B.H.M.S. DEGREE EXAMINATION**  
(New Regulation – From 2015-2016 Batch onwards)

**PAPER V – PHYSIOLOGY - II**

*Q.P. Code : 581505*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Explain the composition, mechanism of secretion, functions and regulation of secretion of gastric juice.
2. Name the hypothalamic groups of nuclei. Explain the functions and effect of lesion of hypothalamus.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Explain the mechanism of second stage of deglutition.
2. Vitamin-C- sources, daily requirement and deficiency manifestations.
3. Spermatogenesis-stages and its regulation.
4. Cushing's syndrome- causes, symptoms and diagnosis.
5. Describe the reactions of urea cycle and its significance.
6. Parkinsonism-causes and features.
7. Mechanism of hearing.
8. Hypothyroidism.
9. Errors of refraction.
10. Female contraception.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Essential amino acids.
2. Catecholamines.
3. Cerebellar nuclei.
4. Chylomicrons.
5. Babinski's sign.
6. Pancreatic hormones.
7. Broca's area.
8. Enzymes.
9. Structure of neuron.
10. Gigantism.

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[LP 1505]

DECEMBER 2019

Sub. Code: 1505

**FIRST B.H.M.S. DEGREE EXAMINATION**

**(Supplementary)**

**(New Regulation – From 2015-2016 Batch onwards)**

**PAPER V – PHYSIOLOGY - II**

***Q.P. Code : 581505***

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Explain in detail about Ovulation cycle.
2. Describe the composition, function and regulation of secretion of Pancreatic juice.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Define synapse. Explain synaptic transmission.
2. Vitamin-A- Sources, daily requirement and deficiency manifestations.
3. Explain Visual pathway.
4. Krebs's cycle-Steps, significance and its energetics.
5. Tetany, Causes, important features of tetany and signs of latent tetany.
6. Synthesis of Thyroid hormones.
7. Wallerian degeneration.
8. Tract of Goll and Burdach-origin, course, termination, function and effect of lesion.
9. What is deglutition? What are the stages of deglutition and explain in detail about the second stage of deglutition.
10. Explain the  $\beta$ -oxidation of fatty acids.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Reflex arc.
2. Waves of EEG.
3. Pheochromocytoma.
4. Visual receptors.
5. ADH.
6. Ketone bodies.
7. Internal capsule.
8. Taste buds.
9. Adiadokokinesis.
10. Bile pigments.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BHMS 0921]**

**SEPTEMBER 2021  
(OCTOBER 2020 EXAM SESSION)**

**Sub. Code: 1505**

**FIRST B.H.M.S. DEGREE COURSE  
PAPER V – PHYSIOLOGY - II  
*Q.P. Code : 581505***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Describe in detail about the synthesis and functions of Anterior Pituitary Hormones.
2. Define and classify Reflexes and explain in detail about superficial reflexes, deep reflexes and visceral reflexes.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Spinal Cord.
2. Visual pathway.
3. Parkinson Disease.
4. Glands of the Stomach.
5. Functions of Saliva.
6. Functions of Bile Salts.
7. Gastric juice.
8. Sources, functions and Vitamin D and its deficiency disease.
9. Fat soluble vitamins.
10. Functions of Placenta.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Amenorrhoea.
2. Glucocorticoids.
3. Lactation.
4. Astrocytes.
5. Cutaneous receptors.
6. Local Hormones.
7. Action of Follicle Stimulating Hormones.
8. Protein energy malnutrition.
9. Organ of Corti.
10. Chromosomes.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BHMS 0222]**

**FEBRUARY 2022  
(DECEMBER 2020 EXAM SESSION)**

**Sub. Code: 1505**

**B.H.M.S. DEGREE EXAMINATION  
FIRST YEAR (New Regulations – from 2015-2016 batch onwards)  
PAPER V – PHYSIOLOGY - II  
*Q.P. Code : 581505***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Essay Questions: (2 x 15 = 30)**

1. Trace the Extrapyramidal tract and describe the functions of Extrapyramidal tract.
2. Describe the composition, function, regulation of Pancreatic juice secretion.

**II. Write Notes on: (10 x 5 = 50)**

1. Spermatogenesis.
2. Refractory Errors.
3. Vitamin B12-Deficiency.
4. Gigantism.
5. Deglutition.
6. Carbohydrate Metabolism.
7. Diabetes insipidus.
8. Reverse peristalsis.
9. Corpus Luteum.
10. Receptors.

**III. Short Answers on: (10 x 2 = 20)**

1. Types of Neurons.
2. Saltatory conduction.
3. Three Neuron Doctrine.
4. Indefatigability.
5. Cretinism.
6. Infertility.
7. Vitamin A – Deficiency.
8. Acromegaly.
9. Neurilemma.
10. Amylase.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BHMS 0522]**

**MAY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 1505**

**B.H.M.S. DEGREE EXAMINATION  
FIRST YEAR (New Regulations – from 2015-2016 batch onwards)  
PAPER V – PHYSIOLOGY - II  
*Q.P. Code : 581505***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Essay Questions: (2 x 15 = 30)**

1. Describe the Synthesis, Storage, release, transport and Physiological functions of Thyroid Hormone.
2. Name the Desending Tracts of Spinal Cord. Explain about the origin, course, termination, functions and effects of lesion OF Pyramidal Tract.

**II. Write Notes on: (10 x 5 = 50)**

1. Hypothalamo Hypophysial Portal System.
2. Disorders of Growth Hormone.
3. Spermatogenesis.
4. Cerebellum.
5. Synapse.
6. Composition and functions of Bile.
7. Functions of Liver.
8. Errors of refraction.
9. Functions of Skin.
10. Fat soluble Vitamins.

**III. Short Answers on: (10 x 2 = 20)**

1. Catecholamines.
2. Tetany.
3. Aphasia.
4. Internal capsule.
5. Sham feeding.
6. Cholecystokinin.
7. Color Blindness.
8. Co-enzyme.
9. Gluconeogenesis.
10. Ovulation.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BHMS 0922]**

**SEPTEMBER 2022  
(DECEMBER 2021 EXAM SESSION)**

**Sub. Code: 1505**

**B.H.M.S. DEGREE EXAMINATION  
FIRST YEAR - SUPPLEMENTARY  
(New Regulations – from 2015-2016 batch onwards)  
PAPER V – PHYSIOLOGY – II**

*Q.P. Code : 581505*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Explain in detail about the structure and functions of Thalamus.
2. Name the hormones secreted by the Pituitary gland. Describe the actions and regulation of secretion of growth hormone. Add a note on hyper and hypo secretion of growth hormone.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Cerebrospinal fluid-composition, circulation and functions.
2. Vitamin-D - Sources, daily requirement and deficiency manifestations.
3. Ovarian changes during menstruation.
4. Composition, functions and regulation of secretion of gastric juice.
5. Summarize the Glycolytic pathway with its energetic.
6. Cretinism-causes, clinical features, screening tests.
7. Briefly explain the movements of small intestine.
8. Composition and functions of bile.
9. Components and disorders of basal ganglia.
10. Layers of Retina.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Adrenocortical hormones.
2. Cutaneous receptors.
3. Insulin.
4. Tests for hearing.
5. Define BMR.
6. Name the gastrointestinal hormones.
7. Wernicke's area.
8. Name the major salivary glands and its ducts.
9. Lipoproteins.
10. Ptyalin.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BHMS 0323]**

**MARCH 2023  
(OCTOBER 2022 EXAM SESSION)**

**Sub. Code: 1505**

**B.H.M.S. DEGREE EXAMINATION  
FIRST YEAR  
(New Regulations – from 2015-2016 batch onwards)  
PAPER V – PHYSIOLOGY – II**

*Q.P. Code: 581505*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. Explain Synthesis, Secretion, Control and disorders of Posterior Pituitary Hormones.
2. Explain Receptors, Neuronal order, connections, course and effect of lesions of Visual Pathway.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Hyperthyroidism.
2. Cushing's Syndrome.
3. Menopause.
4. Blood brain barrier.
5. Disorders of Hypothalamous.
6. Properties, composition and functions of Succus Entericus.
7. Movements of large Intestine.
8. TCA Cycle.
9. Contraceptive Methods.
10. Test for hearing.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Cretinism.
2. Diagnostic tests for Diabetes Mellitus.
3. Proprioceptor.
4. Neurotransmitters.
5. Gastro intestinal Hormones.
6. CHYME.
7. Audiometry.
8. Lipid Profile.
9. Deglutition.
10. Sensory receptors.

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