

APRIL - 2001

[KD 512]

M.D. (Siddha) DEGREE EXAMINATION.

(New Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolun

Paper III — UDAL THATTUVAM

(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Write an essay on the formation and functions of Thyroxine. What are the clinical features of hyperthyroidism. (15)
2. Write an essay on the structure connections and functions cerebellum. What are the clinical features of cerebellar lesions. (15)
3. Write briefly on : (5 × 10 = 50)
 - (a) Taste pathway.
 - (b) Adrenal medullary hormones.
 - (c) Hering – Breuer Reflex.
 - (d) Blood groups
 - (e) Obligatory reabsorption of water.

4. Fill up the blanks (2 × 10 = 20)

- (a) Gastrin is a ——— hormone.
- (b) Red colour blindness is known as ———.
- (c) Vitamin B₁₂ and Folic acid is essential for
- (d) T-Lymphocyte is concerned with immunity.
- (e) Agranulocytosis means a decrease in the number of ———.
- (f) Volume of minimal air is
- (g) Inulin clearance value is ———.
- (h) In connection with heart vagus is nerve
- (i) Pepsinogen is ——— of pepsin.
- (j) Copper-T is not ——— Family Planning method

NOVEMBER - 2001

[KE 512]

M.D. (Siddha) DEGREE EXAMINATION.

(New Regulations)

First Year

Branch V — Noi Nedai

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATTHUVAM

(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

1. Write an essay on the hormones of Anterior pituitary. What are the differences between a pituitary dwarf and thyroidal cretin? (15)
2. Define Electro Cardiogram. Describe a normal ECG. Add note on its clinical importance. (15)
3. Write short notes on : (5 × 10 = 50)
 - (a) Hamburger phenomenon (Or) Chloride shift
 - (b) Peculiarities of cardiac muscle
 - (c) Law of Intestine
 - (d) Cortico-Spinal Tract
 - (e) Erythropoietic factors.

4. Fill in the blanks (10 × 2 = 20)

- (a) B-Lymphocyte is concerned with
- (b) Stimulation of parasympathetic nerve causes pupillary _____
- (c) The life span of spermatozoan is about _____ hours.
- (d) Spastic paralysis is a feature of lesion
- (e) The resting membrane potential is from _____ to _____ mV.
- (f) Sympathetic stimulation causes of urinary bladder.
- (g) Eosinophils increase during reaction.
- (h) Entero gastrone is not an enzyme but
- (i) Total WBC count during typhoid infection
- (j) Normal pregnancy duration i lunar months.

MARCH - 2002

[KG 512]

M.D. (Siddha) DEGREE EXAMINATION

(New Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum, Maruthuva

Neethi Noolum

Paper III — UDAL THATHUVAM

NAVEENA MURAIGAL

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Write an essay on the formation of urine. Add note on Renal glycosuria. (15)
2. Describe the various factors that regulate the Blood pressure. Add note on hypertension. (15)
3. Write short notes on (5 × 10 = 50)
 - (a) Functions of Thalamus
 - (b) Oral contraceptive pills

(c) Biphasic Action Potential

(d) Thyroxine

(e) Reflex arc.

4 Fill up the blanks (10 × 2 = 20)

(a) Pancreozymin is not an enzyme but

(b) Engulfing action of Neutrophil is known as

(c) Cones are responsible for the perception of _____ and _____ for colours.

(d) Broca's core 41 and 42 are the _____ areas of brain.

(e) During depolarization Na^+ ions enters from _____ towards _____.

(f) Cardiac output is almost equal to that of

(h) Normal urinary output is about ml/day.

(i) Inspiratory and Expiratory centres are situated at

(j) Heparin is very powerful _____

SEPTEMBER - 2002

[KH 512]

M.D. (Siddha) DEGREE EXAMINATION

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum, Maruthuva Neethi
Noolum

Paper III — UDAL THATTHUVAM
(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

1. Write an essay on formation of urine. Write briefly on transection of spinal cord on micturition process. (20)

2. Write an essay on the Transport of Carbon-dioxide. Add note on Hypoxia. (20)

3. Write short notes on (5 × 8 = 40)

- (a) Erythropoiesis
- (b) Middle Ear Transmission
- (c) Parathormone
- (d) Pancreatic enzymes
- (e) Reflex arc

4. Fill up the blank (10 × 2 = 20)

- (a) Sarcomere is _____
- (b) Liver is an _____ and _____ organ.
- (c) Pyramidal is a _____ Tract
- (d) Vasectomy is NOT a _____ Family planning method.
- (e) Thalamus serves as a main _____ station.
- (f) Spastic paralysis is characteristic of _____
- (g) Cardiac output is equal to _____
- (h) Salivary secretion has NO _____ control.
- (i) Cerebellum is concerned with _____ and _____ of body.
- (j) Thyroxine increases _____

APRIL - 2003

[KI 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

New/Revised Regulations

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATTHUVAM

(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the process of coagulation in detail. Add a note on anti-coagulants with example. Mention the differences between Haemophilia and purpura. (10)
2. Write an essay on the formation and functions of thyroidal hormone. What are the clinical manifestation of Hyperthyroidism? (10)
3. Write short notes on : (6 × 5 = 30)
 - (a) Renal Glycosuria
 - (b) Minimal air volume
 - (c) Oral contraceptive pills
 - (d) Law of Intestinal movement
 - (e) Parathormone
 - (f) Homeostasis.

4. Write an essay on Basal Ganglia. Mention the clinical manifestations of Parkinsonism. (10)

5. Define cardiac output. Mention the factors that influence the blood pressure and their clinical importance. (10)

6. Write briefly on : (6 × 5 = 30)

- (a) Peculiarities of olfactory sensation
 - (b) Adrenaline
 - (c) Electro cardiogram
 - (d) Reflex arc
 - (e) Menstrual cycle
 - (f) Functions of liver.
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OCTOBER - 2003

[KJ 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATTHUVAM

(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the Respiratory centre and its location. What is the neural and chemical regulation of respiration? (15)
2. What are the two divisions of autonomic Nervous system? Describe their functions. (15)
3. Write short notes on : (5 × 10 = 50)
 - (a) Cretinism
 - (b) Functions of cerebellum

- (c) Plasma proteins and their functions
- (d) Phases of Gastric secretion
- (e) Micturition Reflex.

4. Fill up the blanks : (10 × 2 = 20)

- (a) Humoral immunity is a function of _____.
- (b) Blood flow to the Brain is _____.
- (c) Intracellular fluid has more of _____ ions.
- (d) Thrombocytic Purpura is due to Deficiency of _____.
- (e) In LMN lesion the muscles are _____.
- (f) In Brodmann's Areas is located the _____.
- (g) In Myxedema the TSH levels are _____.
- (h) In an ECG the T wave is caused due to _____.
- (i) Hypermetropia is corrected with _____ lens.
- (j) The Bicarbonate ion rich fluid is secreted in Pancreatic juice by Gastro Intestinal hormone _____.

APRIL - 2004

[KK 512]

Sub. Code : 2148

SECTION B

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATTHUVAM

(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

**Sec. A & B : Two hours and
forty minutes**

Sec. A & B : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

SECTION A

Long Essay :

(2 × 15 = 30)

- 1. Describe the regulations of Blood pressure.**
- 2. Describe the absorptive functions of the small intestine.**

Short notes :

(10 × 5 = 50)

- 3. Taste.**
- 4. Short notes on RH Factor.**
- 5. Describe the unit of a Nephron.**
- 6. Significance and abnormality of 'T' wave.**
- 7. Functions of amino acids.**
- 8. Phases of menstrual cycle.**
- 9. The effects of castration before puberty.**
- 10. Composition of the faeces and their origin.**
- 11. Breath sounds.**
- 12. Factors influencing BMR value.**

AUGUST - 2004

[KL 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATTHUVAM

(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

Sec. A & B : Two hours and

Sec. A & B : 80 marks

forty minutes

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

SECTION A

Long essay :

(2 × 15 = 30)

1. Define cardiac cycle and follow the events of cycle.
2. Describe the functions of the posterior pituitary gland.

SECTION B

Short notes :

(10 × 5 = 50)

3. Prostaglandins.
4. Phagocytes.
5. Hypersensitivities.
6. Main functions of testosterone.
7. Difference between eccrine and apocrine glands.
8. Vitamin A toxicity and symptoms.
9. Describe the second heart sound
10. A.V. NODE.
11. Pulse pressure.
12. Define peristalsis.

FEBRUARY - 2005

[KM 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATTHUVAM

(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

**Sec. A & B : Two hours and
forty minutes**

Sec. A & B : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

SECTION A — (2 × 15 = 30 marks)

Essay Questions :

1. Explain the formation, composition, circulation and functions of cerebrospinal fluid.
2. Describe the functions of kidneys and explain the mechanism of urine formation.

SECTION B — (10 × 5 = 50 marks)

Write briefly :

3. Glaucoma.
 4. Interstitial fibrosis.
 5. Heart-block.
 6. Secondary sexual characters.
 7. Tetany.
 8. Blood brain barrier.
 9. Succus Entericus.
 10. Eccrine glands.
 11. Fertility control.
 12. Apical Impulse.
-

AUGUST - 2005

[KN 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATHUVAM

(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

Theory : Two hours and

Theory : 80 marks

forty minutes

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay :

(2 × 15 = 30)

1. Describe the formation, composition and functions of lymph.

2. Describe the nervous control of the heart.

II. Short notes :

(10 × 5 = 50)

1. Semenanalysis.

2. All or none law.

3. Periodic breathing.

4. Erythropoiesis.

5. Succus entericus.

6. Grave's disease.

7. REM sleep (Paradoxical sleep).

8. Glaucoma.

9. Motor functions of cerebellum.

10. Erythroblastosis foetalis.

FEBRUARY - 2006

[KO 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATHUVAM

(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay :

(2 × 15 = 30)

1. Discuss Blood Glucose regulation, types of Diabetes, its diagnosis and treatment in physiologic aspects.

2. Explain the Defence mechanism played by neutrophils and macrophages.

II. Short notes :

(10 × 5 = 50)

1. Glycolysis.

2. Oxytocin.

3. Hypothyroidism.

4. Hormonal factors in pregnancy.

5. Autonomic Reflexes.

6. Explain the term 'The Eye as a Camera'.

7. Movements in the G.I.T.

8. Pulmonary volumes and capacities.

9. Conditions that cause excessive bleeding.

10. Types of lymphocytes and its role in immunity.

AUGUST - 2006

[KP 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATHUVAM

(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay :

1. (a) Micturition reflex.

(b) Obligatory urine volume. (10 + 10 = 20)

2. Give a detailed account on the function of the cerebellum in overall motor control. (15)

3. Discuss – Metabolic functions of the liver. (15)

II. Short notes : (6 × 5 = 30)

1. Digestion of carbohydrates.

2. Regulation of cerebral blood flow.

3. Mechanics of parturition.

4. Hypothalamic – Hypophyseal portal system.

5. Intraocular pressure.

6. Weightlessness in space.

MARCH - 2007

[KQ 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V – Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATHUVAM

(NAVEENA MURAIGAL)

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay :

1. Describe the visual pathway and explain how vision is perceived. (20)
2. Describe the events of a cardiac cycle. (15)
3. Explain the mechanism of urine formation. (15)

II. Short notes :

(6 × 5 = 30)

1. Periodic breathing.
 2. Cryptorchidism.
 3. Interstitial fibrosis.
 4. Cushing syndrome.
 5. Bile salts.
 6. Blood brain barrier.
-

March-2008

[KS 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATHUVAM

(NAVEENA MURAIGAL)

Q.P. Code : 322148

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 20 = 40)

(1) Discuss blood glucose regulation, types of diabetes, its diagnosis and treatment in physiologic aspects.

(2) Write about

(a) Micturition reflex

(b) Obligatory urine volume.

II. Write short notes :

(10 × 6 = 60)

- (1) Intra ocular pressure**
- (2) Weightlessness in space**
- (3) Blood brain barrier**
- (4) Regulation of cerebral blood flow**
- (5) Events of a cardiac cycle**
- (6) Bile salt**
- (7) Interstitial fibrosis**
- (8) Pulmonary volumes and capacities**
- (9) Functions of Hypothalamus**
- (10) Hormonal factors in pregnancy.**

September-2008

[KT 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V – Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATHUVAM

(NAVEENA MURAIGAL)

Q.P. Code : 322148

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 20 = 40)

1. Explain the auditory pathway with suitable diagram. Add a note on auditory defects.
2. Give a detailed account of Erythropoiesis.

II. Short notes :

(10 × 6 = 60)

1. Cerebrospinal Fluid.
2. Effects of Sudden Exposure to cold and heat.
3. Edema.
4. Hemorrhage.
5. Disorders of muscles.
6. Contractile elements of the muscle.
7. Movements of stomach.
8. Diuretics.
9. Goitre.
10. Local Hormones.

[KU 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATHUVAM (PHYSIOLOGY)

(NAVEENA MURAIGAL)

Q.P. Code : 322148

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 20 = 40)

1. Define electrocardiogram. Describe the normal waves of electrocardiogram. Write few conditions of abnormal electrocardiogram.

2. Define Glomerular filtration rate. Describe the factors affecting glomerular filtration rate and substances used for measuring glomerular filtration rate. Add a note on the Filtration membrane.

II. Short notes : (10 × 6 = 60)

1. Erythoblastosis foetalis.
2. Contraceptive methods.
3. Myxoedema.
4. Functions of Saliva (or) Second stage of Deglutition.
5. Cerebellar function tests
6. Artificial Respiration (or) Pleura effusion.
7. Transport across cell membranes.
8. Plasma protein and their functions.
9. Properties of cardiac muscle.
10. Refractive errors of the eye.

September - 2009

[KV 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATHUVAM (PHYSIOLOGY)

(NAVEENA MURAIGAL)

Q.P. Code : 322148

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 20 = 40)

1. Describe the functions of the posterior pituitary gland.

2. Describe the Gastrointestinal Hormones.

II. Short notes : (10 × 6 = 60)

1. Juxtaglomerular apparatus.

2. Neuromuscular Transmission.

3. Rh factor.

4. Factors involved in blood clotting.

5. Maternal changes during pregnancy.

6. Alveolar Air.

7. Degeneration and Regeneration of Nerve Fibres.

8. Functions and disorders of hypothalamus.

9. Proprioceptors.

10. Disorders of speech.

September 2010

[KX 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATHUVAM (PHYSIOLOGY)

(Naveena Muraigal)

Q.P. Code : 322148

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

- I. Long Essay : (2 × 20 = 40)
1. Define cardiac cycle. Describe the events in sequence that occur during cardiac cycle with suitable diagrams.
 2. Enumerate the Hormones of Thyroid Gland, their synthesis and mechanism of action in the body. Differentiate between Hypothyroidism and hyperthyroidism.

II. Write Short notes on : (10 × 6 = 60)

1. Functions of Saliva
2. Transport of CO₂ in blood and tissues.
3. Role of Aldosterone in sodium balance.
4. Hemoglobin and Anemias.
5. Refractive errors of the eye.
6. Diabetes Mellitus and Diabetes insipidus.
7. Functions of liver.
8. Functions and disorders of Thalamus.
9. Anti inflammatory effects of cortisol.
10. Movements of small intestine.

MAY 2011

[KY 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATHUVAM (PHYSIOLOGY)

(NAVEENA MURAIGAL)

Q. P. Code : 322148

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay :

(2 x 20 = 40)

1. Describe the metabolism, metabolic and non-metabolic actions of adrenal cortex.
2. Describe the composition, regulation and applied aspects of gastric juice.

II. Short notes :

(10 x 6 = 60)

1. Special features of renal circulation.
 2. Four areas of cerebral cortex.
 3. Anticoagulants.
 4. Eosinophil.
 5. Tests for ovulation.
 6. Hypoxia.
 7. Differences between upper motor neuron and lower motor neuron lesion.
 8. Lateral spinothalamic tract.
 9. Cerebral circulation.
 10. Conducting system of heart.
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October 2011

[KZ 512]

Sub. Code : 2148

M.D. (SIDDHA) DEGREE EXAMINATION.

FIRST YEAR

Branch V — Noi Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — UDAL THATHUVAM (PHYSIOLOGY)

(NAVEENA MURAIGAL)

Q. P. Code : 322148

Time : Three hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages (Max.)	Time (Max.)	Marks (Max.)
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1. Define clotting. Describe the mechanism of clotting. Add a note on anticoagulants.

11	35 min.	20
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2. Describe the various phases of gastric secretion, constituents of gastric secretion and motility of the stomach. Add a note on peptic ulcer.

11	35 min.	20
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II. Write notes on :

1. Conductive tissues of the heart.

4	10 min.	6
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2. Hormones of posterior pituitary

4	10 min.	6
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3. Immunity.

4	10 min.	6
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4. Entero hepatic circulation.

4	10 min.	6
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5. Renal function tests.

4	10 min.	6
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6. Functions of Thalamus.

4	10 min.	6
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7. Lung volumes and capacities.

4	10 min.	6
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8. Anaemias.

4	10 min.	6
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9. Aqueous Humour.

4	10 min.	6
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10. Phases of Menstrual cycle.

4	10 min.	6
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[LA 512]**Sub. Code : 2148****M.D. (SIDDHA) DEGREE EXAMINATION.****First Year****(Common to Branch V & VI)****Paper III — UDAL THATHUVAM (PHYSIOLOGY)****(NAVEENA MURAIGAL)****Q. P. Code : 322148****Time : Three hours (180 minutes)****Maximum : 100 marks****Answer ALL questions in the same order.**

I. Elaborate on :	Pages	Time	Marks
	(Max.)	(Max.)	(Max.)
1. Described composition, Regulation of Gastric, Juice. Add a note on Gastritis.	11	35 min.	20
2. What is Erythropoiesis? Describe the stages of Erythropoiesis.	11	35 min.	20
II. Write notes on :			
1. Functions of Saliva.	4	10 min.	6
2. Endoplasmic Reticulum factors.	4	10 min.	6
3. GFR.	4	10 min.	6
4. Features of Myxoedema.	4	10 min.	6
5. Progesterone actions.	4	10 min.	6
6. Conducting system of heart.	4	10 min.	6
7. Type of hypoxia.	4	10 min.	6
8. Visual pathway.	4	10 min.	6
9. Structure of neuron.	4	10 min.	6
10. Functions of Plasma Proteins.	4	10 min.	6

[LB 512]**Sub. Code : 2148****M.D. (SIDDHA) DEGREE EXAMINATION – OCTOBER 2012****First Year****(Common to Branch V & VI)****Paper III — UDAL THATHUVAM (NAVEENA MURAIGAL)****(PHYSIOLOGY)****Q. P. Code : 322148****Time : 180 minutes****Maximum : 100 marks****Answer ALL questions in the same order.**

I. Elaborate on :	Pages	Time	Marks
1. Write an essay on thyroid hormone synthesis, metabolism, transport, functions and its feedback regulation of secretion. Add a note on Hypothyroidism.	(Max.) 11	(Max.) 35 min.	(Max.) 20
2. Describe in detail the neural and chemical regulation of respiration with a picture of respiratory centers. Add a note on artificial respiration.	11	35 min.	20
II. Write notes on :			
1. Phases of gastric juice secretions and functions of gastric juice.	4	10 min.	6
2. Define haemostasis. What is the role of platelets in blood coagulation?	4	10 min.	6
3. Glomerular filtration and factors regulating it.	4	10 min.	6
4. Micturation reflex and innervation of bladder with a diagram.	4	10 min.	6
5. Posterior pituitary gland and functions of oxytocin hormone.	4	10 min.	6
6. Conducting system of Heart and its function.	4	10 min.	6
7. Normal heart rate and factors regulating it.	4	10 min.	6

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|-----|--|---|---------|---|
| 8. | Classification of receptors and functions of photoreceptors. | 4 | 10 min. | 6 |
| 9. | Functions of Middle ear and tests for hearing. | 4 | 10 min. | 6 |
| 10. | Functions of aldosterone hormone. | 4 | 10 min. | 6 |
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[LC 512]

SUB CODE : 2148

M.D. (SIDDHA) DEGREE EXAMINATION – APRIL 2013

FIRST YEAR

(Common to Branch V & VI)

PAPER III – UDAL THATHUVAM (Physiology)

(Naveena Muraigal)

Q.P.Code : 322148

Time : 3 hrous

Maximum : 100 marks

ANSWER ALL QUESTIONS

I. Long Essay:

(2x20=40)

1. Draw a neat diagram and explain the origin, functions and termination of pyramidal pathway. Add notes on hemiplegia.
2. Name all the coagulation factors. Explain the pathways of coagulation with suitable diagram.

II. Short Notes:

(10x6=60)

1. Decompression sickness.
2. Composition and functions of surfactant
3. Functions of hypothalamus
4. Regulations of blood pressure.
5. Heart sounds
6. T-cell immunity
7. Milk ejection reflex.
8. Juxtaglomerular Apparatus (JGA)
9. Stages of deglutition
10. Sodium potassium pump.

[LD 512]

SUB CODE : 2148

M.D. (SIDDHA) DEGREE EXAMINATION – OCTOBER 2013

FIRST YEAR

(Common to Branch V & VI)

PAPER III – UDAL THATHUVAM (Physiology)

(Naveena Muraigal)

Q.P.Code : 322148

Time : 3 hrous

Maximum : 100 marks

I. Long Essay:

(2x20=40)

1. Composition, functions and regulation of pancreatic juice secretion. Add a note on steatorrhoea.
2. Draw a diagram of respiratory centers and explain the neural and chemical regulation of respiration.

II. Short Notes:

(10x6=60)

1. Functions of plasma proteins.
2. Diabetes insipidus.
3. Placental hormones.
4. Factors affecting cardiac output
5. Frank-Starling's law and its clinical importance
6. Brown-Sequard syndrome.
7. Properties of synapse.
8. Transport of Carbondioxide
9. Anticoagulants and mechanism of their action.
10. Impulse transmission at neuromuscular junction.

**M.D. (SIDDHA) DEGREE EXAMINATION
FIRST YEAR
(Common to Branch V & VI)
PAPER –III – UDAL THATHUVAM (PHYSIOLOGY)
(Naveena Muraigal)
*Q.P. Code :322148***

Time : Three Hours

Maximum : 100 marks

Answer all questions

I. Elaborate on: (2X20=40)

1. Discuss the composition, mechanism and regulation of gastric secretion.
2. What are the normal blood sugar levels? Which hormone regulate the blood sugar level and how? Add a note on diabetes mellitus.

II. Write notes on: (10X6=60)

1. Visual pathway.
2. Thermoregulatory function of Skin.
3. Regulation of respiration.
4. Hormones from the neurohypophysis.
5. Descending tracts of the spinal cord.
6. Glomerular filtration rate (GFR).
7. Explain the stages of development of erythrocytes.
8. Renin-Angiotensin mechanism.
9. Coagulation factors.
10. Neuromuscular transmission.

M.D.(SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH V & VI

PAPER III – UDAL THATHUVAM (PHYSIOLOGY)

(Naveena Muraigal)

Q.P. Code : 322148

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define Haemostasis. Describe briefly about the mechanism of clotting.
Add a note on hemophilia.
2. Describe in detail the synthesis and functions of thyroid hormones.
Add a note on Hypothyroidism.

II. Short Notes:

(10 x 6 = 60)

1. Hypothalamic releasing and inhibiting factors.
2. Functions of liver.
3. Cyclic function of female reproductive organs.
4. Functions of Skin.
5. Ascending pathways of the spinal cord.
6. Functions of platelets.
7. Spermatogenesis.
8. Composition and Functions of saliva.
9. Heart sounds.
10. Hypoxia.

M.D. (SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH V – NOI NAADAL &

BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM

PAPER III – UDAL THATHUVAM (PHYSIOLOGY)

(Naveena Muraigal)

Q.P. Code : 322148

Time: Three Hours

Maximum : 100 Marks

Answer ALL questions in the same order

I. Elaborate on:

(2 x 20 = 40)

1. Describe the mechanism of coagulation in detail.
Add a note on bleeding disorders.
2. Explain auditory pathway with suitable diagram.
Add a note on auditory defects.

II. Write notes on:

(10 x 6 = 60)

1. Lifesaving and Life protecting hormones.
2. Functions of pineal gland.
3. Composition and secretion of bile.
4. Renal Functions Test.
5. Describe Hypoxia.
6. Write notes on Erythropoiesis.
7. Describe Infertility.
8. Succus entericus.
9. Acid base balance.
10. UMN and LMN.

[LH 2148]

OCTOBER 2015

Sub. Code: 2148

M.D.(SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH V & VI

PAPER III – UDAL THATHUVAM (PHYSIOLOGY)

(NAVEENA MURAIGAL)

Q.P. Code : 322148

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Discuss about the endocrine functions of Thyroid gland. Add a note on Hypo and Hyperthyroidism.
2. Describe about the types and functions of WBC. Add a note on Immunity.

II. Short Notes on:

(10 x 6 = 60)

1. Parasympathetic nervous system.
2. Tissue respiration.
3. Factors influencing glomerular filtration rate.
4. Regulation of blood pressure.
5. Blood-brain barrier.
6. Heart sounds.
7. Renin- angiotensin mechanism.
8. Write notes on Spermatogenesis.
9. Describe Haemophilia.
10. Functions of ovary.

M.D.(SIDDHA) DEGREE EXAMINATION
FIRST YEAR
BRANCH V & VI
PAPER III – UDAL THATHUVAM (PHYSIOLOGY)
(Naveena Muraigal)
Q.P. Code : 322148

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Discuss nervous and hormonal regulation of Blood pressure. Add a note on hypertension.
2. Describe about the exchange of respiratory gases. Add a note on hypoxia.

II. Short Notes on: **(10 x 6 = 60)**

1. Parkinson's disease.
2. Platelets.
3. Juxtaglomerular apparatus.
4. Growth Hormone.
5. Brown-Sequard syndrome.
6. Sweat glands.
7. Oogenesis.
8. Composition and Functions of gastric Juice.
9. Neuroglial cells.
10. Cardiac murmurs.

[LJ 2148]

OCTOBER 2016

Sub.Code :2148

**M.D.(SIDDHA) DEGREE EXAMINATION
FIRST YEAR
BRANCH V & VI
PAPER III – UDAL THATHUVAM (PHYSIOLOGY)
(Naveena Muraigal)
Q.P. Code : 322148**

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Transport across Cell Membrane.
2. Menstrual Cycle.

II. Short Notes on: **(10 x 6 = 60)**

1. Fate of Red Blood Cells.
2. Physiological Actions of Mineralocorticoids.
3. Surfactant.
4. Visual Pathway.
5. Functions of White Blood Cells.
6. Function of Saliva.
7. Exocrine Functions of Pancreas.
8. Peculiarities of Renal Circulation.
9. Neuroglia.
10. Hypothyroidism.

M.D.(SIDDHA) DEGREE EXAMINATION
FIRST YEAR
BRANCH V & VI
PAPER III – UDAL THATHUVAM (PHYSIOLOGY)
(Naveena Muraigal)
Q.P. Code : 322148

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Cardiac Cycle.
2. Physiology and applied Physiology of posterior pituitary hormones.

II. Short Notes on: **(10 x 6 = 60)**

1. Action Potential.
2. Structure and function of Juxta Glomerular Apparatus.
3. Excitation Contraction and coupling.
4. Lung Volumes and Capacities.
5. Neuromuscular Junction.
6. Ascending Pathways of Central Nervous System.
7. Functions of skin.
8. Anaemia.
9. Deglutition.
10. Homeostasis.

[LL 2148]

OCTOBER 2017

Sub. Code: 2148

M.D. (SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH V & VI

PAPER III – UDAL THATHUVAM (PHYSIOLOGY)

(Naveena Muraigal)

Q.P. Code : 322148

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Erythropoiesis.
2. Pyramidal Tract.

II. Short Notes on:

(10 x 6 = 60)

1. Digestion of Lipids.
2. Glomerular Filtration Rate.
3. Coagulation of Blood.
4. Features of Upper Motor Neuron Lesions.
5. Respiratory Membrane.
6. Applied Physiology of Insulin Hormone.
7. Milk Ejection Reflex.
8. Oxygen Hemoglobin dissociation Curve.
9. Digestion, Absorption and Metabolism of Proteins.
10. Phagocytosis.

[LM 2148]

MAY 2018

Sub. Code: 2148

M.D. (SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH V & VI

PAPER III – UDAL THATHUVAM (PHYSIOLOGY)

(Naveena Muraigal)

Q.P. Code : 322148

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mechanism of urine formation.
2. Physiology and applied physiology of thyroid hormone.

II. Short Notes on:

(10 x 6 = 60)

1. Movements of small intestine.
2. Electrocardiogram.
3. Innate immunity.
4. Visual pathway.
5. Neuromuscular junction.
6. Mineralocorticoids.
7. Peculiarities of renal circulation.
8. Functions of skin.
9. Digestion, Absorption and Metabolism of carbohydrates.
10. Active transport across cell membrane.
