

APRIL - 2001

[KD 508]

M.D. (Siddha) DEGREE EXAMINATION

First Year

(New Regulations)

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandhai Maruthuvam

Paper II ADIPPADAI ARIVIYAL — II

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Answer Section A, B and C in separate answer books

SECTION A — (35 marks)

(UYIR VEDHIYAL)

Explain the factors influencing the enzyme action.
(7)

2 Draw and explain TCA cycle (7)

3. What are the functions and deficiency of Vitamin A. (7)

4 Write the metabolism of Fe briefly (7)

5 How fats are get absorbed in the body (7)

SECTION B — (35 marks)

(NUN-UYIRIYAL)

(MICROBIOLOGY)

6. Discuss in detail about different types of culture media and various culture methods. (15)

7 Short notes on : (4 × 5 = 20)

(a) Passive immunity.

(b) BCG.

(c) Lab. diagnosis of HIV infection.

(d) Urinary tract infection.

SECTION C — (30 marks)

(PATHOLOGY)

8. Define Neoplasia. Discuss the differences between a benign and malignant neoplasm. Add a note on Chemical Carcinogenesis. (15)

9 Write short notes on any THREE of the following :
(3 × 5 = 15)

(a) Fatty change.

(b) Calcification.

(c) Phagocytosis.

(d) Pathophysiology of Edema

(e) Primary Tuberculosis.

NOVEMBER - 2001

[KE 508]

M.D. (Siddha) DEGREE EXAMINATION.

First Year

(New Regulations)

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Time : Three hours

Maximum : 100 marks

Answer Section A, B and C in separate answer books.

Answer ALL questions.

SECTION A — (35 marks)

(UYIR VEDHIYAL)

1. Classify fatty acids with example. (7)
2. How are serum proteins separated by electrophoresis? (7)
3. Name the plasma proteins and give its functions. (7)

4. Explain the metabolism and regulation of Insulin secretion. (7)

5. Write the deficiency and metabolism of Vitamin D. (7)

SECTION B — (35 marks)

(NUN-UYIRIYAL)

(MICROBIOLOGY)

6. What is an antibody? Name various classes of Immunoglobulins and describe the structure and functions of Immunoglobulins. (1 × 15 = 15)

7. Write short notes on : (4 × 5 = 20)

- (a) Autoclave
- (b) Lab. diagnosis of pul. tuberculosis
- (c) Hepatitis B virus
- (d) Life cycle of plasmodium falciparum

SECTION C — (30 marks)

(PATHOLOGY)

8. Define inflammation. Classify chemical mediators of inflammation and discuss their role in inflammation. (15)

NOVEMBER - 2001

- 9 Write briefly on any THREE of the following :**
(3 × 5 = 15)

- (a) Fatty change**
- (b) Calcification**
- (c) Embolism**
- (d) Chemical carcinogens**
- (e) Healing of fracture of bone**

MARCH - 2002

[KG 508]

M.D. (Siddha) DEGREE EXAMINATION

First Year

(New Regulations)

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Answer Section A, B and C in separate answer book.

SECTION A — (35 marks)

(UYIR VEDHIYAL)

1. What are the biological functions of Nucleic Acids? (7)
2. What are the functions of pituitary glands? (7)
3. Draw and explain TCA cycle in detail (7)
4. What is the role of Fe (iron) in our body (7)
5. What are the factors influencing the distribution of body fluids? (7)

SECTION B — (35 marks)

(NUN-UYIRIAL)

(MICROBIOLOGY)

6. What are culture media? Classify and describe in detail. (15)
7. Write short notes on : (4 × 5 = 20)
 - (a) Antirabies vaccine
 - (b) Complement cascade
 - (c) Laboratory diagnosis of syphilis
 - (d) Antimicrobial sensitivity testing.

SECTION C — (30 marks)

(PATHOLOGY)

8. Define neoplasia. Discuss the differences between benign and malignant neoplasm. Add a note on various type of carcinogenic factors. (15)
9. Write briefly on any THREE of the following : (3 × 5 = 15)
 - (a) Types of Necrosis
 - (b) Cellular events in acute inflammation
 - (c) Pathophysiology of edema
 - (d) Mechanisms of wound healing
 - (e) Etiopathogenesis of Shock.

SEPTEMBER - 2002

[KH 508]

M.D. (SIDDHA) DEGREE EXAMINATION

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Time : Three hours

Maximum : 100 marks

**ANSWER SECTIONS A, B AND C IN SEPARATE
ANSWER BOOKS.**

Answer ALL questions.

SECTION A — (35 marks)

(UYIRVEDHIYAL)

1. What are the functions of Proteoglycans? (7)
2. Write the physical, chemical and biological changes that take place in denaturation of protein. (7)
3. Derive the relationship between the substrate concentration and half maximal velocity of the enzyme. (7)
4. Explain the Absorption and Metabolism of Vitamin D. (7)
5. Write about the Metabolism of cholesterol. (7)

SECTION B — (35 marks)

NUN-UYIRIYAL

(MICROBIOLOGY)

6. What is hypersensitivity? Write in detail about various types of hypersensitivity reactions. (1 × 15 = 15)
7. Write short notes on : (4 × 5 = 20)
 - (a) Leprosy
 - (b) Lab Diagnosis of enteric fever
 - (c) Bacteriophage
 - (d) Vaccination against HBV infection.

SECTION C — (30 marks)

(PATHOLOGY)

Write briefly on any FIVE of the following :

(5 × 6 = 30)

8. Define Necrosis. Describe the features of a necrotic cell. Enumerate the various types of Necrosis.
9. List out the cellular events in acute inflammation and discuss in detail about Phagocytosis.

SEPTEMBER - 2002

10. Discuss the role of Arachidonic acid metabolites in inflammation.
 11. Define Thrombosis. Discuss briefly on the etipathogenesis of thrombosis.
 12. Discuss the role of Chemical carcinogens in Neoplasia.
 13. Discuss the various organ changes in a case of shock.
 14. Discuss briefly Transplant Rejection.
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APRIL - 2003

[KI 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

First Year

(New/Revised Regulations)

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Answer Section A, B and C in SEPARATE
answer book.

SECTION A — (35 marks)

(Uyir Vedhiyal)

(Biochemistry)

1. Write the metabolic actions of Epinephrine. (7)
2. What are the functions of copper? (7)
3. Draw and explain Urea synthesis. (7)

4. Write the physiological functions, metabolism and deficiency manifestations of Niacin. (7)

5. Write elaborately the factors influencing Enzyme action. (7)

SECTION B — (35 marks)

(Nun-Uyiriyal)

(Microbiology)

6. Define sterilization and disinfection. Write in detail about the various methods of sterilization by heat. (1 × 15 = 15)

7. Write short notes on : (4 × 5 = 20)

- (a) Bacillus anthracis
- (b) HIV
- (c) Enteric fever
- (d) Candida Infection.

SECTION C — (30 marks)

(Pathology)

Write briefly on any FIVE of the following :

(5 × 6 = 30)

8. Define Apoptosis. Discuss the mechanism of apoptotic cell death.
9. Discuss briefly about Pathologic Calcification.

APRIL - 2003

- 10. Define Metaplasia. Enumerate the various types of metaplasia with examples.**
 - 11. Discuss the various mechanisms of wound healing.**
 - 12. Define Infarction. Discuss the types of Infarction with examples.**
 - 13. Discuss the differences between benign and malignant neoplasm.**
 - 14. Discuss in detail type I Hypersensitivity reaction.**
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OCTOBER - 2003

[KJ 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Answer Section A, B and C in SEPARATE
answer book.

SECTION A — (35 marks)

UYIR VEDHIYAL (BIOCHEMISTRY)

1. Classification of Fatty acids. (7)
2. Describe the structure of DNA. (7)
3. Write the Fate of glucose after absorption. (7)
4. How Pyruvic acid is oxidised to Acetyl CoA? (7)
5. Explain the Metabolic effects of Thyroxine. (7)

SECTION B — (35 marks)

NUN-UYIRIYAL (MICROBIOLOGY)

6. What is Transduction? Describe in detail about Bacteriophage. (1 × 15 = 15)
7. Write short notes on : (4 × 5 = 20)
 - (a) Rabies vaccine
 - (b) Antibodies
 - (c) V.D.R.L.
 - (d) Acid Fast Bacilli.

SECTION C — (30 marks)

8. Discuss in detail the process of healing by primary and secondary intention. Add a note on the factors involved in wound healing. (5 + 5 + 5)
9. Write short notes on any THREE of the following : (3 × 5 = 15)
 - (a) Oncogenic viruses
 - (b) Phagocytosis
 - (c) Calcification
 - (d) Primary complex
 - (e) Differences between benign and malignant neoplasm.

APRIL - 2004

[KK 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandsai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Time : Three hours Maximum : 100 marks

Theory : Two and half hours Theory : 70 marks

M.C.Q. : Half an hour M.C.Q. : 30 marks

Answer ALL questions.

**Answer Section A, B and C in SEPARATE
answer book.**

SECTION A — (25 marks)

(BIOCHEMISTRY)

I. Write an essay on Adrenal Hormones. (15)

II. Short notes on : (2 × 5 = 10)

(a) Physiological functions of Niacin.

(b) Hydrolysis of proteins.

SECTION B — (25 marks)

(MICROBIOLOGY)

(NUN-UYIRIAL)

**I. Discuss mode of transmission and laboratory
diagnosis of Hepatitis B virus infection. (1 × 15 = 15)**

II. Write short notes on : (2 × 5 = 10)

**(a) Laboratory diagnosis of Pulmonary
Tuberculosis.**

(b) Autoclave.

SECTION C — (20 marks)

(PATHOLOGY)

I. Essay :

**Give examples of granulamatous inflammation.
Mention the pathogenesis in primary complex. (15)**

APRIL - 2004

II. Short Answers : (5 × 1 = 5)

Define the following :

- (a) Carbuncle
 - (b) Oedema
 - (c) Teratoma
 - (d) Callus
 - (e) Infarction.
-

AUGUST - 2004

[KL 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

Branch III — Sirappu Maruthuvam

Branch IV —Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Time : Three hours Maximum : 100 marks

Theory : Two and half hours Theory : 70 marks

M.C.Q. : Half an hour M.C.Q. : 30 marks

Answer ALL questions.

**Answer Section A, B and C in SEPARATE
Answer Books.**

SECTION A — (25 marks)

Essay : (15)

1. Draw and explain UREA CYCLE and also write disorders of urea cycle.

Write short note on : (2 × 5 = 10)

2. Functions of phosphorus
3. Biological significance of fat.

SECTION B — (25 marks)

1. (a) Describe the morphology of *V. cholerae*. (3)
(b) Describe the cultural characteristics of *cholerae*. (4)
(c) Write the lab diagnosis of *V. cholerae* from rice water stool. (8)

Short notes : (2 × 5 = 10)

2. OPV
3. IMVIC test.

SECTION C — (20 marks)

1. Essay :

Mention the types of Necrosis. Illustrate your answer with diagram, add a note on apoptosis. (15)

Short answer : (5)

2. Neoplasia
3. Metaplasia
4. Dysplasia
5. Anaplasia
6. Carcinoma in situ.

FEBRUARY - 2005

[KM 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVITYAL — II

Time : Three hours

Maximum : 100 marks

Theory : Two and half hours

Theory : 70 marks

M.C.Q. : Half an hour

M.C.Q. : 30 marks

Answer Section A, B and C in SEPARATE
Answer Books.

Answer ALL the questions.

SECTION A — (25 marks)

(BIOCHEMISTRY)

I. Write in detail : (1 × 15 = 15)

Draw the cycle and explain how urea is synthesised in Krebs Henselit cycle. Discuss the metabolic disorders of urea cycle.

யூரியா உருவாக்கும் சுழற்சியை வரைந்து விளக்குக.
அத்துடன் சம்பந்தப்பட்ட நோய்களை பற்றி விவரிக்க.

II. Write short notes on : (2 × 5 = 10)

(a) GTT with normal and abnormal curves.

(b) Phospholipids and Glycolipids.

சிற் குறிப்பு வரைக :

(அ) குடாபற்ற. குடாபற்றவர்க்கில் திடிது வரைபடம் பற்றி
கூறுக

(ஆ) பாஸ்போ டைஸ்ட்ரோப்களும், கிளைசெரோ
டைஸ்ட்ரோப்களும் பற்றி விவரி.

SECTION B — (25 marks)

(NUNNUYIRIYAL)

I. (a) Describe the structure of Human Immuno
Deficiency Virus. (4)

(b) What are the various modes of transmission? (3)

(c) Write in detail about the specific tests to find
out HIV infection. (8)

II. Write short notes on : (2 × 5 = 10)

(a) Lab diagnosis of leptospires.

(b) Agglutination reaction.

FEBRUARY - 2005

SECTION C — (20 marks)

(PATHOLOGY)

I. Define Neoplasia.

Enumerate the differences between benign and malignant neoplasms.

Add a note on the laboratory diagnosis of Neoplasia. (10)

II. Write briefly on the following : (2 × 5 = 10)

(a) Types of Necrosis with examples.

(b) Role of Chemical Mediators in Inflammation.

AUGUST - 2005

[KN 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Time : Three hours

Maximum : 100 marks

Theory : Two and half hours

Theory : 70 marks

M.C.Q. : Half an hour

M.C.Q. : 30 marks

Answer Section A, B and C in SEPARATE answer books.

Answer ALL questions.

SECTION A — (25 marks)

(Uyir Vedhiyal)

I. Long Essay :

Emden Meyerhof pathway – Draw and explain and also give the energy production and inhibition of glycolysis. (15)

II. Write short notes on : (2 × 5 = 10)

(a) Mucopolysaccharidoses

(b) Factors controlling Iron absorption.

SECTION B — (25 marks)

I. Long Essay : (1 × 15 = 15)

(a) List the bacterial organisms causing meningitis. (3)

(b) Describe the morphology and cultural characteristics of Pneumococci. (4)

(c) Write the lab diagnosis of pneumococci from CSF. (8)

II. Write short notes : (2 × 5 = 10)

(a) Type I Hypersensitivity.

(b) Lab diagnosis of Hepatitis B Virus.

SECTION C — (20 marks)

I. Long Essay : (1 × 10 = 10)

Describe Infarction. Describe the gross and microscopic appearance of heart in myocardial infarction. Add a note on the investigations in myocardial infarction. (10)

II. Write short notes : (2 × 5 = 10)

(a) Teratoma.

(b) Typhoid ulcer intestine.

FEBRUARY - 2006

[KO 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Time : Three hours

Maximum : 100 marks

Theory : Two and half hours

Theory : 70 marks

M.C.Q. : Half an hour

M.C.Q. : 30 marks

**Answer Section A, B and C in SEPARATE
answer books.**

Answer ALL questions.

SECTION A — (25 marks)

(UYIR VEDHIYAL)

I. Long Essay : (15)

1. Describe the reactions in the synthesis of urea.

II. Write short notes on : (2 × 5 = 10)

1. Gout.

2. Ketone bodies.

SECTION B — (25 marks)

(NUNNURIYAL)

I. Long Essay : (15)

1. Describe the morphology and lab diagnosis of syphilis.

II. Write short notes on : (2 × 5 = 10)

1. Lab diagnosis of AIDS.

2. Dry heat sterilization.

SECTION C — (20 marks)

(PATHOLOGY)

I. Long Essay : (10)

1. Define Necrosis.

Describe the morphology of a necrotic cells. Enlist the various types of necrosis with examples.

II. Write short notes on : (5 × 2 = 10)

Define the following :

1. Thrombosis.

2. Neoplasia.

3. Metaplasia

4. Chemotaxis

5. Shock.

AUGUST - 2006

[KP 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
Thirty minutes**

Theory : 70 marks

M.C.Q. : Thirty minutes

M.C.Q. : 30 marks

Answer ALL questions.

**Answer Section A, B and C in SEPARATE answer
books.**

SECTION A — (25 marks)

(Bio-Chemistry)

(UYIR VEDHIYAL)

I. Long Essay :

- 1. Write an essay on Metabolism of Iron. (15)**

II. Short notes on : (2 × 5 = 10)

- 1. Functions of Proteoglycans**
- 2. Production of ATP for each turn of citric acid cycle.**

SECTION B — (25 marks)

(Nun-Uyirial)

(MICRO BIOLOGY)

I. Long Essay :

- 1. Define the terms sterilization, disinfection and antisepsis. Name various agents used for sterilization. Discuss the role of hot air oven in sterilization. (15)**

II. Write short notes on : (2 × 5 = 10)

- 1. Widal test**
- 2. Polio vaccine.**

SECTION C — (20 marks)

(Adipadai Ariviyal)

(PATHOLOGY)

I. Long Essay :

- 1. (a) Define shock**
- (b) Enumerate the causes for shock**
- (c) Discuss in detail on septic shock. (10)**

AUGUST - 2006

11. Write briefly on the following : (2 × 5 = 10)
1. Factors influencing healing
 2. Radiation injury.
-

MARCH - 2007

[KQ 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
thirty minutes

Theory : 70 marks

M.C.Q. : Thirty minutes

M.C.Q. : 30 marks

Answer ALL questions.

Answer Section A, B and C in SEPARATE answer
books.

SECTION A — (25 marks)

(Bio-Chemistry)

(UYIR VEDHIYAL)

I. Long Essay :

1. Describe the reaction in the synthesis of urea. (15)

II. Short notes on :

(2 × 5 = 10)

1. Write Metabolism, Bio-chemical functions, Mechanism of action and Abnormalities of Progesterone.
2. Bio-chemical functions and Deficiency symptoms of Botin.

SECTION B — (25 marks)

(Nun-Uyirial)

(MICRO BIOLOGY)

I. Long Essay :

1. Define Hypersensitivity. (2)
 - Classify Hypersensitivity. (3)
 - Describe Type I Hypersensitivity in detail. (10)
- (2 + 3 + 10 = 15)

II. Write short notes on :

(2 × 5 = 10)

1. Lab diagnosis of Enteric fever
2. Lab diagnosis of Hepatitis B virus infection.

MARCH - 2007

SECTION C — (20 marks)

(Adipadai Ariviyal)

(PATHOLOGY)

I. Long Essay :

1. (a) Define Neoplasia.

(b) Enumerate the differences between benign and malignant neoplasms.

(c) Give examples for each of them. (10)

II. Write briefly on the following : (2 × 5 = 10)

1. Dystrophic calcification

2. Chemical mediators.

March-2008

[KS 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVTYAL – II

Q.P. Code 322111

Time : Three hours

Maximum : 100 marks

Answer Section A, B and C in Separate answer books.

Answer ALL questions.

SECTION A — (39 marks)

(UYIR VEDHIYAL)

I. Long Essay : (1 × 15 = 15)

1. Draw and explain urea synthesis Krebs Henseleit cycle.

II. Write short notes on : (4 × 6 = 24)

1. How are compound lipids classified? (6)

2. Explain Metabolism and Regulation of Insulin secretion. (6)

3. Draw and explain β -oxidation cycle of fatty acid. (6)
4. What are the functions of plasma proteins? (6)

SECTION B — (33 marks)
(NUNNUYIRIAL)

MICROBIOLOGY

- I. Long essay : (1 × 15 = 15)
 1. Define the terms sterilization, disinfection and antisepsis. Name various agents used for sterilization. Discuss the role of hot air oven in sterilization.
- II. Short notes : (3 × 6 = 18)
 1. Widal test
 2. Lab diagnosis Hep.B. Virus injection.
 3. Type I Hypersensitivity.

SECTION C — (28 marks)
(ADIPADAI ARIVIYAL)

PATHOLOGY

- I. Long essay : (1 × 10 = 10)
 1. Define Shock. Mention the pathogenesis of hypovolemic shock

- II. Short notes : (3 × 6 = 18)
 1. Nutmeg liver
 2. Malignant melanoma.
 3. Factors influencing wound healing.

September-2008

[KT 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVYAL — II

Q.P. Code : 322111

Time : Three hours

Maximum : 100 marks

Answer Sections A, B and C in Separate answer books.

Answer ALL questions.

SECTION A — (39 marks)

(UYIR VEDHIYAL)

- I. Long Essay : (1 × 15 = 15)
 - 1. Write an essay on Metabolism of Iron.
- II. Short notes : (4 × 6 = 24)
 - 1. What are the functions of glycoproteins?
 - 2. Write about the digestion of lipids.

3. What are the factors controlling the absorption of Calcium?

4. Summarise the physiological role of Pyridoxine.

SECTION B — (33 marks)

(NUN UYIRIAL)

MICROBIOLOGY

I. Long Essay : (1 × 15 = 15)

1. Describe the morphology and lab diagnosis of Syphilis.

II. Short notes : (3 × 6 = 18)

1. Dry heat sterilization.

2. Polio Vaccine.

3. Urinary tract infection.

SECTION C — (28 marks)

(ADIPADAI ARIVITIAL)

PATHOLOGY

I. Long Essay : (1 × 10 = 10)

1. Define Embolism. Mention the various types of Embolism. Briefly write about Pulmonary embolism.

II. Short notes :

(3 × 6 = 18)

1. Viral Oncogenesis.

2. Septic shock.

3. Ghons focus.

March - 2009

[KU 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Q.P. Code: 322111

Time : Three hours

Maximum : 100 marks

Answer Section A, B and C in Separate answer books.

Answer ALL questions.

SECTION A — (39 marks)

(UYIR VEDHIYAL)

I. Long Essay : (1 × 15 = 15)

1. Write an account of the anterior pituitary hormones.

II. Write short notes on : (4 × 6 = 24)

1. What are the Bio-chemical functions of Vitamin E?
2. Allosteric regulation.
3. Explain the tests to assess gastric function.
4. Electrolyte balance.

SECTION B — (33 marks)

MICROBIOLOGY (NUN-UYIRIAL)

I. Long Essay : (1 × 15 = 15)

1. Discuss mode of transmission and laboratory diagnosis of HIV.

II. Write short notes on : (3 × 6 = 18)

1. Laboratory diagnosis of Enteric fever.
2. ELISA.
3. Moist heat sterilization.

SECTION C — (28 marks)

(ADIPADAI ARIVIYAL)

(PATHOLOGY)

I. Long Essay : (1 × 10 = 10)

1. Define Necrosis. Discuss the various types of necrosis with clinical examples.

II. Write short notes : (3 × 6 = 18)

1. Mechanism of wound healing.
2. Causes for Thrombosis.
3. Chemical Carcinogens.

September - 2009

[KV 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Q.P. Code : 322111

Time : Three hours

Maximum : 100 marks

**Answer Section A, B and C in separate
answer books.**

Answer ALL questions.

SECTION A — (39 marks)

(UYIR VEDHIYAL)

I. Long Essay : (1 × 15 = 15)

1. Draw and explain that citric acid cycle is the final common Metabolic pathway for the oxidation of food stuffs.

II. Write short notes on : (4 × 6 = 24)

1. What are the bio-chemical functions of Vitamin C.

2. Examine the role of concentration of substrate in Enzyme activity.

3. What are the factors regulating plasma calcium level?

4. Explain creatinine clearance test.

SECTION B — (33 marks)

(NUNNUYIRIAL)

III. Long Essay : (1 × 15 = 15)

1. (a) Define and classify hypersensitivity reactions.

(b) Write in detail about mechanism and mediators of type I reactions.

IV. Write short notes on : (3 × 6 = 18)

1. Laboratory diagnosis of Hepatitis B virus.

2. Enzymes and Toxins of Staphylococci.

3. Polio Vaccine.

SECTION C — (28 marks)

Illustrate your answers with diagrams.

V Long Essay : (1 × 10 = 10)

1. Discuss the pathogenesis of primary tuberculosis. Mention the various diagnostic procedures in the above case.

VI. Write briefly : (3 × 6 = 18)

1. Healing by secondary intention.

2. Downs syndrome.

3. Diagnosis of Cancer.

September 2010

[KX 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Q.P.Code : 322111

Time : Three hours

Maximum : 100 marks

Answer Section A, B and C in separate answer books.

Answer ALL questions.

SECTION A — (39 marks)

(UYIR VEDHIYAL)

- I. Essay : (1 × 15 = 15)
1. What are the major pathways of carbohydrate metabolism? Give the reactions of Glycolysis with suitable figure.
- II. Short notes : (4 × 6 = 24)
1. Electrolyte balance.
 2. What are the biochemical functions of pantothenic acid?

September 2010

3. What are the classes of immunoglobulins and give its characteristics?
4. Transamination.

SECTION B — (33 marks)

(NUN UYIRIAL)

(MICROBIOLOGY)

- III. Essay : (1 × 15 = 15)

1. Write about the morphology, laboratory diagnosis and prophylaxis of rabies virus.

- IV. Short notes : (3 × 6 = 18)

1. Opportunistic infections in AIDS.
2. Polio vaccine.
3. Mycobacterium tuberculosis.

SECTION C — (28 marks)

(PATHOLOGY)

- V. Essay : (1 × 10 = 10)

1. Write in detail about bleeding disorders with special reference to platelet disorder.

- VI. Short notes : (3 × 6 = 18)

1. Erythrocyte sedimentation rate.
 2. Respiratory distress syndrome.
 3. Necrosis.
-

MAY 2011

[KY 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL — II

Q.P. Code : 322111

Time : Three hours

Maximum : 100 marks

Answer Section A, B and C in separate answer books.

Answer ALL questions.

SECTION A — (39 marks)

(UYIR VEDHIYAL)

BIOCHEMISTRY

I. Essay : (1 × 15 = 15)

1. Describe the Hexose Mono Phosphate shunt and add a note on its significance.

எக்சோஸ் ஒற்றை பாஸ்பேட்டு வேறுவழி திருப்புதல்-ஐ விவரித்து அதன் முக்கியத்துவத்தை குறிப்பிடு.

II. Short notes : (4 × 6 = 24)

1. Glucose tolerance test – Draw graph and Explain.

குளுக்கோஸ் சகிப்பு சோதனை – வரைபடம் வரைந்து விரித்துரைக்க.

2. Write the types and the functions of lipoproteins.

கொழுப்பு புரதங்களின் வகைகள் மற்றும் பணிகளை எழுதுக.

3. List out the physiologically important peptides.

பெப்டைடுகளின் உடல்தத்துவ முக்கியத்தவத்தை பட்டியலிடுக.

4. What are the physiological role of Vitamin E.

வைட்டமின் E-ன் உடல்தத்துவ பங்கு என்ன?

SECTION B — (33 marks)

(NUN UYIRIAL)

MICROBIOLOGY

Answer ALL questions.

III. Essay : (1 × 15 = 15)

1. Give a detailed account on physical and chemical methods of sterilization.

IV. Short notes on : (3 × 6 = 18)

1. Differentiate primary response and secondary response.
2. Neisseria Gonorrhea.
3. Viral Vaccines.

SECTION C — (28 marks)

(ADIPADAI ARIVTYAL)

PATHOLOGY

V. Essay : (1 × 10 = 10)

1. Define necrosis. Discuss the various types of necrosis in detail.

VI. Short notes : (3 × 6 = 18)

1. Kwashiorkor.
2. Factors affecting wound healing.
3. Down's syndrome.

October 2011

[KZ 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

FIRST YEAR

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

Paper II — ADIPPADAI ARIVIYAL – II

Q.P. Code : 322111

Time : Three hours (180 minutes)

Maximum : 100 marks

Answer ALL questions in the same order.

Answer Section A, B and C in Separate Answer Books.

Answer ALL questions.

SECTION A — (39 marks)

(UYIR VEDHIYAL)

I. Elaborate on :

1. Give an account of fatty acid oxidation.

கொழுப்பு அமிலத்தின் ஆக்சிஜனேற்றத்தை எழுதுக.

**Pages Time Marks
(Max.) (Max.) (Max.)**

11 35 min. 15

II. Write notes on :

1. Enzymes in myocardial infarction.

இதய நோய்களை கண்டறிய உதவும் நொதிகள்.

4 10 min. 6

2. List of various types of RNA and its functions.

RNA-ன் வகைகளை பட்டியலிட்டு அதன் பணிகளை எழுதுக.

4 10 min. 6

3. Functions of phospholipids.

பாஸ்போ கொழுப்புகளின் பணிகள்.

4 10 min. 6

4. Name the three complementary mechanisms by which emulsification of lipids takes place. Explain.

கொழுப்புகளின் எமல்சிபிகேஷனை நடைபெற செய்யும்

மூன்று பூரண செயல்பாடுகளின் பெயர்களை கூறி, விளக்குக.

4 10 min. 6

SECTION B — (33 marks)

(NUNUYIRIAL)

(MICROBIOLOGY)

I. Elaborate on :

1. Describe the morphology, cultural characteristics, classification and lab diagnosis of Streptococcus pyogenes.

11 35 min. 15

II. Write notes on :

1. Lab diagnosis of syphilis.

4 10 min. 6

2. Type I hypersensitivity

4 10 min. 6

3. Hepatitis B virus.

4 10 min. 6

SECTION C — (28 marks)

(ADIPADAI ARIVIYAL)

(PATHOLOGY)

I. Elaborate on :

1. Define Necrosis. Classify necrosis and write the pathology of necrosis with examples.

10

II. Write notes on :

1. Ghon's complex.

4 10 min. 6

2. Leucocytosis.

4 10 min. 6

3. Poliomyelitis.

4 10 min. 6

[LA 508]

April 2012

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION.

First Year

(Common to Sirappu Maruthuvam and Kuzhandhai Maruthuvam Branches)

Paper II — ADIPPADAI ARIVIYAL — II

Q. P. Code : 322111

Time : Three hours (180 minutes)

Maximum : 100 marks

Answer ALL questions in the same order.

Answer Section A, B and C separately

SECTION A — (39 marks)

(UYIR VEDHIYAL)

(BIO CHEMISTRY)

I. Elaborate on :	Pages	Time	Marks
1. Write an essay on the Structure, Biosynthesis, Secretion, Metabolic effects and mechanism of action of Insulin.	(Max.) 11	(Max.) 25 min.	(Max.) 15
II. Write notes on :			
1. Liver function tests.	4	10 min.	6
2. Metabolism and functions of High Density Lipoproteins (HDL).	4	10 min.	6
3. Homeostasis of calcium.	4	10 min.	6
4. Degradation of cholesterol.	4	10 min.	6

SECTION B — (33 marks)

(NUN UYIRIAL)

(MICROBIOLOGY)

I. Elaborate on :		Pages	Time	Marks
		(Max.)	(Max.)	(Max.)
1.	Write about the morphology, pathogenesis and laboratory diagnosis of the bacteria causing Anthrax.	11	25 min.	15
II. Write notes on :				
1.	Bacteriophage.	4	10 min.	6
2.	Coagulase test.	4	10 min.	6
3.	Leptospirosis.	4	10 min.	6

SECTION C — (28 marks)

(ADIPPADAI ARIVIYAL)

(PATHOLOGY)

I. Elaborate on :		Pages	Time	Marks
		(Max.)	(Max.)	(Max.)
1.	Define Inflammation. Write the types of inflammation and phagocytosis.	11	20 min.	10
II. Write notes on :				
1.	Metaplasia.	4	10 min.	6
2.	Lab diagnosis of genetic disorders.	4	10 min.	6
3.	Classify Leukemias.	4	10 min.	6

[LB 508]

Sub. Code : 2111

M.D. (SIDDHA) DEGREE EXAMINATION – OCTOBER 2012

First Year

(Common to Branch III & Branch IV)

Paper II — ADIPPADAI ARIVIYAL — II

Q. P. Code : 322111

Time : 180 minutes

Maximum : 100 marks

Answer ALL questions in the same order.

Answer Section A, B and C separately

SECTION A — (39 marks)

UYIR VEDHIYAL (BIO CHEMISTRY)

I. Elaborate on :	Pages	Time	Marks
1. Write an essay on the Biosynthesis, mechanism of action, Biochemical functions, abnormalities and Laboratory investigation of thyroid hormones.	(Max.) 11	(Max.) 25 min.	(Max.) 15
II. Write notes on :			
1. Types, chemical composition and functions of Mucopolysaccharides.	4	10 min.	6
2. Types and functions of Phospholipids	4	10 min.	6
3. The Watson and Crick Model of DNA structure	4	10 min.	6
4. Biochemical functions, Transport and deficiency manifestations of Iron.	4	10 min.	6

SECTION B — (33 marks)

NUN UYIRIAL (MICROBIOLOGY)

I.	Elaborate on :	Pages	Time	Marks
1.	List the Hepatotropic viruses. Discuss in detail about the morphology, pathogenesis and laboratory diagnosis of Hepatitis B virus.	(Max.) 11	(Max.) 25 min.	(Max.) 15
II.	Write notes on :			
1.	Opportunistic mycosis	4	10 min.	6
2.	Chemical agents used in sterilization	4	10 min.	6
3.	Laboratory diagnosis of Malaria	4	10 min.	6

SECTION C — (28 marks)

NUNNUYIR NOI IYAL (PATHOLOGY)

I.	Elaborate on :	Pages	Time	Marks
1.	Define Neoplasm. Elaborate on the differences between Benign tumours and Malignant tumours. Give examples.	(Max.) 11	(Max.) 20 min.	(Max.) 10
II.	Write notes on :			
1.	Packed Cell Volume (PCV)	4	10 min.	6
2.	Pathways of spread of malignant tumours.	4	10 min.	6
3.	Define Infarct. What are the morphologic types of infarct? Give examples.	4	10 min.	6

[LC 508] SUB CODE: 2111
M.D. (SIDDHA) DEGREE EXAMINATION – APRIL 2013
FIRST YEAR
(Common to Sirappu Maruthuvam & Kuzhadhai Maruthuvam Branches)
Paper -II – ADIPPADAI ARIVIYAL - II
Q.P.Code : 322111

Time : 3 hours

Maximum: 100 marks

Answer Section A, B and C Separately

Section –A

I. Long Essay : **(1x15=15)**

1. Write an essay on biosynthesis, functions and abnormalities of Thyroid hormones.

II. Short Notes: **(4x6=24)**

1. Metabolism of Lipoproteins.
2. The reactions of Gluconeogenesis.
3. Functions and deficiency of Pyridoxine
4. Functions and disorders of sodium.

Section –B

I. Long Essay : **(1x15=15)**

1. Define Sterilization and classify moist heat Sterilization. Explain the principle, function and applications of Autoclave.

II. Short Notes: **(3x6=18)**

1. Rabies vaccines
2. Clostridium tenani
3. Anaphylaxis.

Section –C

I. Long Essay : **(1x10=10)**

1. Define Neoplasia. Discuss the differences between benign and malignant neoplasms. Describe the pathways of spread.

II. Short Notes: **(3x6=18)**

1. Down Syndrome
2. Factors that influence wound healing
3. Fate of the Thrombus

[LD 508] **SUB CODE: 2111**
M.D. (SIDDHA) DEGREE EXAMINATION – OCTOBER 2013
FIRST YEAR
(Common to Sirappu Maruthuvam & Kuzhadhai Maruthuvam Branches)
Paper -II – ADIPPADAI ARIVIYAL - II
Q.P.Code : 322111

Time : 3 hours

Maximum: 100 marks

Answer Section A, B and C Separately

Section –A

I. Long Essay : **(1x15=15)**

1. Write an essay on metabolic effects of insulin and role of hormones in blood glucose homeostasis.

II. Short Notes: **(4x6=24)**

1. Clinically important enzymes.
2. Functions and deficiency of vitamin B12
3. Functions and diseases of Fluorine.
4. Caloric value of carbohydrate, Lipid and Protein and their requirements.

Section –B

I. Long Essay : **(1x15=15)**

1. Describe the morphology and cultural characteristics of *Vibrio cholerae*. Add a note on the laboratory diagnosis and pathogenesis of Cholera.

II. Short Notes: **(3x6=18)**

1. WIDAL
2. Serum sickness
3. Hepatitis B Virus.

Section –C

I. Long Essay : **(1x10=10)**

1. Define Shock. Enumerate the types of Shock. Discuss the pathogenesis and Stages of Septic Shock.

II. Short Notes: **(3x6=18)**

1. Embolism
2. Apoptosis
3. Tumor Markers

[LE 508] SUB CODE: 2111
M.D. (SIDDHA) DEGREE EXAMINATION – APRIL 2014
FIRST YEAR
(Common to Sirappu Maruthuvam & Kuzhadhai Maruthuvam Branches)
Paper -II – ADIPPADAI ARIVIYAL - II
Q.P.Code : 322111

Time : 3 hours

Maximum: 100 marks

Answer Section A, B & C Separately

Section –A

I. Long Essay : **(1x15=15)**

1. Write an essay on biochemical functions, absorption, transport, storage, dietary requirement, food source and disorders of IRON.

II. Short Notes: **(4x6=24)**

1. Glucose Tolerance Test (GTT)
2. Liver Function Tests (LFT)
3. Functions and deficiency of Thiamine
4. Classification and functions of adrenocortical steroids.

Section –B

I. Long Essay : **(1x15=15)**

1. Describe the structure of HIV. Write in detail about the clinical features and the laboratory diagnosis of AIDS.

II. Short Notes: **(3x6=18)**

1. Laboratory diagnosis of pulmonary tuberculosis.
2. IgM antibody
3. Bacterial flagella

Section –C

I. Long Essay : **(1x10=10)**

1. Classify Hypersensitivity reactions. Discuss Delayed Type Hypersensitivity. Describe briefly about Transplant Rejection.

II. Short Notes: **(3x6=18)**

1. Infarction
2. Chemical Mediators of Inflammation
3. Hemophilia A

[LF 2111]

OCTOBER 2014

Sub.Code :2111

M.D.(SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH III & IV– SIRAPPU MARUTHUVAM & KUZHANDHAI
MARUTHUVAM

PAPER II – ADIPPADAI ARIVIYAL - II

Q.P. Code :322111

Time: Three Hours

Maximum : 100 Marks

SECTION - A

I. Elaborate on: (1 x 15 = 15)

1. Describe in detail chemistry, mechanism of action, functions of Parathormone and write about its clinical importance.

II. Short Notes: (4 x 6 = 24)

1. Types and functions of Nucleic acids.
2. Addison's Disease.
3. Functions and Disorders of Vitamin A.
4. Urea cycle.

SECTION - B

I. Elaborate on: (1 x 15 = 15)

1. Write about the structure, mode of transmission, culture method of transmission, culture method and culture media of Meningococcus.

II. Short Notes: (3 x 6 = 18)

1. Briefly explains the characteristic feature and diagnosis of *Mycobacterium tuberculosis*.
2. Explain the different types of infection.
3. Define vaccine. And explain the types of viral vaccine.

SECTION - C

I. Elaborate on: (1 x 10 = 10)

1. Define thrombosis. Discuss the aetiopathogenesis and morphology of thrombus. Add a note on the fate of thrombus.

II. Short Notes: (3 x 6 = 18)

1. Congenital syphilis.
2. Chemical carcinogenesis.
3. Iron deficiency anemia.

M.D.(SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH III & IV – SIRAPPU MARUTHUVAM & KUZHANDHAI MARUTHUVAM

PAPER II – ADIPPADAI ARIVIYAL - II

Q.P. Code : 322111

Time: Three Hours

Maximum : 100 Marks

Answer ALL questions in the same order

SECTION - A

I. Elaborate on: (1 x 15 = 15)

1. Describe in general properties, classification of amino acids and detail about essential amino acids.

II. Short Notes on: (4 x 6 = 24)

1. Functions of Cortisol.
2. Functions of sulfur.
3. Liver function tests.
4. Functions of Vitamin D and its clinical importance.

SECTION - B

I. Elaborate on: (1 x 15 = 15)

1. Give a detailed account on types of Immunity and sub types with suitable examples.

II. Short Notes on: (3 x 6 = 18)

1. Briefly explain different types of culture media.
2. Explain the properties of Viruses.
3. Comment on Staphylococcus

SECTION - C

I. Elaborate on: (1 x 10 = 10)

1. Define neoplasia. List the differences between benign and malignant tumors.

II. Short Notes on: (3 x 6 = 18)

1. Stages of shock.
2. Turner syndrome.
3. Hodgkin lymphoma.

[LH 2111]

OCTOBER 2015

Sub. Code: 2111

M.D.(SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH III & IV– SIRAPPU MARUTHUVAM & KUZHANDHAI

MARUTHUVAM

PAPER II – ADIPPADAI ARIVIYAL - II

Q.P. Code : 322111

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

SECTION – A

I. Elaborate on:

(1 x 15 = 15)

1. Describe in detail chemistry, mechanism of action, functions of Anterior pituitary hormones and write about their clinical importance.

II. Short Notes on:

(4 x 6 = 24)

1. Functions of copper.
2. Glycolysis.
3. Plasma lipoproteins.
4. Mucopolysaccharides.

SECTION – B

I. Elaborate on:

(1 x 15 = 15)

1. Give a detailed account on Culture media and different culturing techniques bacteria and Viruses.

II. Short Notes on:

(3 x 6 = 18)

1. Explain briefly about the Escherichia Coli.
2. Explain the nonspecific barriers of immune mechanisms.
3. Give an account on characteristics and diagnosis of polio virus.

SECTION – C

I. Elaborate on:

(1 x 15 = 15)

1. Define inflammation. What are the signs of inflammation? Describe the cellular events in acute inflammation.

II. Short Notes on:

(3 x 6 = 18)

1. Gangrene.
2. Type I hypersensitivity.
3. Hemophilia

[LH 2111]

DECEMBER 2015

Sub.Code :2111

M.D.(SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH III & IV– SIRAPPU MARUTHUVAM & KUZHANDHAI
MARUTHUVAM

PAPER II – ADIPPADAI ARIViyAL - II

Q.P. Code :322111

Time: Three Hours

Maximum : 100 Marks

SECTION – A

I. Elaborate on: (1 x 15 = 15)

1. Describe about the Classification of Carbohydrates.

II. Short Notes on: (4 x 6 = 24)

1. Functions of Thyroid stimulating hormone.
2. Factors influence Calcium and Phosphorus absorption.
3. Biological importance of Nucleic acid.
4. Liver function test.

SECTION – B

I. Elaborate on: (1 x 15 = 15)

1. Give an account on the structure and functions of bacterial cells with suitable illustration.

II. Short Notes on: (3 x 6 = 18)

1. Differentiate staphylococcus and streptococcus.
2. Comment on the diagnostic tests used for detecting *Mycobacterium tuberculosis*.
3. Give an account on classification and characteristics of Hepatitis Viruses.

SECTION – C

I. Elaborate on: (1 x 10 = 10)

1. Give a detailed notes on classification and diagnosis of tumour?

II. Short Notes on: (3 x 6 = 18)

1. Atrophy.
2. Metastasis.
3. Hypersensitivity reaction.

[LI 2111]

APRIL 2016

Sub.Code :2111

M.D.(SIDDHA) DEGREE EXAMINATION

FIRST YEAR

**BRANCH III & IV– SIRAPPU MARUTHUVAM & KUZHANDHAI
MARUTHUVAM**

PAPER II – ADIPPADAI ARIVIYAL - II

Q.P. Code :322111

Time: Three Hours

Maximum : 100 Marks

SECTION – A

I. Elaborate on: (1 x 15 = 15)

1. Write an Elaborate Answer on Fatty Acid Oxidation along with energetic and disorders.

II. Short Notes on: (4 x 6 = 24)

1. Write the Functions and deficiency of Ascorbic Acid.
2. Write the Mechanism of Action and functions of Posterior pituitary hormones.
3. Functions and deficiency of copper.
4. Draw and Explain Urea Cycle.

SECTION – B

I. Elaborate on: (1 x 15 = 15)

1. Describe the antigenic markers of HIV with a suitable diagram. Discuss about the pathogenesis and laboratory diagnosis of AIDS.

II. Short Notes on: (3 x 6 = 18)

1. What is Autoimmunity? Describe the management of SLE
2. How do you sterilize disposable plastic syringes using physical and chemical agents?
3. What is floppy child syndrome? How to prevent this?

SECTION – C

I. Elaborate on: (1 x 10 = 10)

1. Define shock. What are the types of shock? Discuss the pathogenesis of septic shock.

II. Short Notes on: (3 x 6 = 18)

1. Modes of spread of Malignant Tumours.
2. Iron deficiency anemia.
3. Down syndrome.

[LJ 2111]

OCTOBER 2016

Sub.Code :2111

M.D.(SIDDHA) DEGREE EXAMINATION

FIRST YEAR

**BRANCH III & IV– SIRAPPU MARUTHUVAM & KUZHANDHAI
MARUTHUVAM**

PAPER II – ADIPPADAI ARIVIYAL - II

Q.P. Code :322111

Time: Three Hours

Maximum : 100 Marks

SECTION – A

I. Elaborate on: (1 x 15 = 15)

1. Describe in detail chemistry, mechanism of action, functions of thyroid hormone.

II. Short Notes on: (4 x 6 = 24)

1. What is the clinical diagnosis of SGPT, SGOT, Acid and Alkaline Phosphatase?
2. Write the bio-Chemical functions and deficiency of Biotin.
3. Draw and Explain HMP – Pathway.
4. Write the Functions and deficiency of Calcium.

SECTION – B

I. Elaborate on: (1 x 15 = 15)

1. Write an essay on the fine structure of a bacterial cell. Explain in detail the difference between Gram positive and Gram negative cell wall.

II. Short Notes on: (3 x 6 = 18)

1. What is gas gangrene? Discuss its management.
2. Describe ELISA in detail with suitable example.
3. What are the important contributions of Louis Pasteur?

SECTION – C

I. Elaborate on: (1 x 10 = 10)

1. Define inflammation. Discuss the chemical mediators of inflammation.

II. Short Notes on: (3 x 6 = 18)

1. Fate of Thrombus.
2. Megaloblastic Anemia.
3. Chemical Carcinogenesis.

[LK 2111]

MAY 2017

Sub.Code :2111

M.D.(SIDDHA) DEGREE EXAMINATION

FIRST YEAR

**BRANCH III & IV– SIRAPPU MARUTHUVAM & KUZHANDHAI
MARUTHUVAM**

PAPER II – ADIPPADAI ARIVIYAL - II

Q.P. Code :322111

Time: Three Hours

Maximum : 100 Marks

SECTION – A

I. Elaborate on: (1 x 15 = 15)

1. Write an essay on the structure, biosynthesis, secretion, metabolic effects and mechanism of action of Insulin.

II. Short Notes on: (4 x 6 = 24)

1. Biochemical functions, transport and deficiency manifestations of Iron.
2. Types and functions of lipoproteins.
3. Importance of nucleotides and nucleosides.
4. Types, chemical composition and functions of mucopolysaccharides.

SECTION – B

I. Elaborate on: (1 x 15 = 15)

1. Give a detailed account on culture media and pure culture technique.

II. Short Notes on: (3 x 6 = 18)

1. Explain the different types of Infection and add a note on Normal flora.
2. Explain the different types of Hepatitis Virus.
3. Draw the structure of Immunoglobulin and add a note various types of Immunoglobulins.

SECTION – C

I. Elaborate on: (1 x 10 = 10)

1. Define Necrosis. Describe the morphological features of a necrotic cell.
Enlist the various types of necrosis with clinical examples.

II. Short Notes on: (3 x 6 = 18)

1. Enumerate the differences between benign and malignant neoplasm.
2. Etiopathogenesis of Thrombosis.
3. Fatty change of Liver.

M.D. (SIDDHA) DEGREE EXAMINATION**FIRST YEAR****BRANCH III & IV– SIRAPPU MARUTHUVAM & KUZHANDHAI
MARUTHUVAM****PAPER II – ADIPPADAI ARIVIYAL - II****Q.P. Code :322111****Time: Three Hours****Maximum : 100 Marks****SECTION – A****I. Elaborate on:** (1 x 15 = 15)

1. Justify the citric acid cycle is the final common metabolic pathway for the oxidation of foodstuffs.

II. Short Notes on: (4 x 6 = 24)

1. Types and functions of plasma proteins.
2. Clinically important enzymes.
3. Factors regulating plasma calcium level and biochemical functions of calcium.
4. Diseases of malnutrition.

SECTION – B**I. Elaborate on:** (1 x 15 = 15)

1. Explain the general properties of virus and classify the viruses based on nucleic acid contents.

II. Short Notes on: (3 x 6 = 18)

1. Explain different types physical sterilization methods.
2. Explain different types Immunoglobulin with suitable illustrations.
3. Give an account on *Cornybacterium diphtheria*.

SECTION – C**I. Elaborate on:** (1 x 10 = 10)

1. Define Neoplasia. Enlist the features of a malignant cell. Discuss in detail the mechanism of metastasis of a malignant tumour.

II. Short Notes on: (3 x 6 = 18)

1. Pathological features of Apoptosis.
2. Factors influencing wound healing.
3. Pathophysiology of edema.

**M.D. (SIDDHA) DEGREE EXAMINATION
FIRST YEAR
BRANCH III & IV– SIRAPPU MARUTHUVAM & KUZHANDHAI
MARUTHUVAM**

PAPER II – ADIPPADAI ARIVIYAL - II

Q.P. Code :322111

Time: Three Hours

Maximum : 100 Marks

SECTION – A

I. Elaborate on: **(1 x 15 = 15)**

1. Chemistry, biochemical functions, recommended dietary allowance, dietary sources and deficiency manifestations of vitamin C.

II. Short Notes on: **(4 x 6 = 24)**

1. Inborn errors of amino acid metabolism.
2. Mechanism of blood coagulation.
3. Reactions of gluconeogenesis.
4. Biochemical functions and abnormalities of sodium and potassium.

SECTION – B

I. Elaborate on: **(1 x 15 = 15)**

1. Explain in detailed about the bacterial growth and nutritional requirement for growth with suitable growth curve pattern.

II. Short Notes on: **(3 x 6 = 18)**

1. Enumerate the properties of the Virus.
2. Give an account on *Mycobacterium tuberculosis*.
3. Define antigen and Antibody and classify the antigen based on determinants.

SECTION – C

I. Elaborate on: **(1 x 10 = 10)**

1. Describe the perinatal infections and congenital malformations.

II. Short Notes on: **(3 x 6 = 18)**

1. Pathologic Calcification.
2. Viral enteritis and diarrhoea.
3. Phagocytosis.

[LN 2111]

OCTOBER 2018

Sub. Code: 2111

M.D. (SIDDHA) DEGREE EXAMINATION

FIRST YEAR

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MARUTHUVAM

PAPER II – ADIPPADAI ARIVIYAL - II

Q.P. Code :322111

Time: Three Hours

Maximum : 100 Marks

SECTION – A

I. Elaborate on: (1 x 15 = 15)

1. Write about the DNA structure and its clinical significance

II. Short Notes on: (4 x 6 = 24)

1. Classifications of carbohydrates.
2. Clinical diagnosis of enzymes.
3. CSF and its clinical importance.
4. Essential amino acids.

SECTION – B

I. Elaborate on: (1 x 15 = 15)

1. Write about the basic principles and reactions of antigen and antibody reaction.

II. Short Notes on: (3 x 6 = 18)

1. Explain the Immunoglobulins.
2. Structure of HIV virus.
3. Disinfection methods.

SECTION – C

I. Elaborate on: (1 x 10 = 10)

1. Write detailed notes on cellular injury and cellular death.

II. Short Notes on: (3 x 6 = 18)

1. Types of Oedema.
2. Leukaemia.
3. Haematoma.

[LO 2111]

MAY 2019

Sub. Code: 2111

M.D. (SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH III & IV– SIRAPPU MARUTHUVAM & KUZHANDHAI

MARUTHUVAM

PAPER II – ADIPPADAI ARIVIYAL – II

Q.P. Code :322111

Time: Three Hours

Maximum : 100 Marks

SECTION – A

I. Elaborate on: (1 x 15 = 15)

1. Write the integration of Carbohydrate, Protein and fat Metabolism with reference to TCA cycle.

II. Short Notes on: (4 x 6 = 24)

1. Write the Functions and Deficiency of Cobalamin.
2. Write the functions and disorders of Parathyroid hormone.
3. Write about Liver function tests.
4. Write the Biochemical functions and deficiency symptoms of Folic Acid.

SECTION – B

I. Elaborate on: (1 x 15 = 15)

1. Write an essay on immunization schedule in India. Elaborate on mandatory viral vaccines for children.

II. Short Notes on: (3 x 6 = 18)

1. Draw the structure of HBV. Enumerate the laboratory diagnostic parameters.
2. Describe various techniques used in Anaerobic cultivation.
3. Discuss the laboratory diagnosis of Typhoid fever.

SECTION – C

I. Elaborate on: (1 x 10 = 10)

1. How microorganism causes disease and write pathogenesis of any five viral infection?

II. Short Notes on: (3 x 6 = 18)

1. Hyaline change
2. Idiopathic thrombocytopenic purpura.
3. Phagocytosis and Killing.

[LP 2111]

OCTOBER 2019

Sub. Code: 2111

M.D. (SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH III & IV– SIRAPPU MARUTHUVAM & KUZHANDHAI

MARUTHUVAM

PAPER II – ADIPPADAI ARIVIYAL - II

Q.P. Code :322111

Time: Three Hours

Maximum : 100 Marks

SECTION – A

I. Elaborate on: (1 x 15 = 15)

1. Write an essay on Biochemical important of enzymes.

II. Short Notes on: (4 x 6 = 24)

1. Classification and functions of Mucopolysaccharides.
2. Functions and disorders of Iodine.
3. Biochemical functions of vitamin E.
4. Calorific value of Carbohydrate, Lipid, Protein and their requirements.

SECTION – B

I. Elaborate on: (1 x 15 = 15)

1. Describe the structure and antigenic characteristics of HBV. Elaborate on the pathogenesis, laboratory diagnosis and preventive measures of viral hepatitis.

II. Short Notes on: (3 x 6 = 18)

1. Management of Leptospirosis.
2. Structure and function of IgM.
3. Urinary Tract Infection.

SECTION – C

I. Elaborate on: (1 x 10 = 10)

1. Define Neoplasms. List the differences between Benign and Malignant Neoplasms.

II. Short Notes on: (3 x 6 = 18)

1. Phagocytosis.
2. Type I Hypersensitivity.
3. Megaloblastic Anemia.

M.D. (SIDDHA) DEGREE EXAMINATION

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MARUTHUVAM**

PAPER II – ADIPPADAI ARIVIYAL - II

Q.P. Code :322111

Time: Three Hours

Maximum : 100 Marks

SECTION – A

I. Elaborate on: (1 x 15 = 15)

1. Write an essay on chemistry, food source, daily requirement, biochemical functions and deficiency manifestation of Vitamin C.

II. Short Notes on: (4 x 6 = 24)

1. Functions and disorders of Sodium.
2. Abnormalities of Thyroid function.
3. Classification and functions of Phospholipids.
4. Diseases of malnutrition.

SECTION – B

I. Elaborate on: (1 x 15 = 15)

1. Describe the structure of H1N1 Virus. Add a note on the pathogenesis and prophylaxis of H1N1 virus.

II. Short Notes on: (3 x 6 = 18)

1. Serological tests for Syphilis.
2. Describe various chemical sterilizants.
3. Antibiotic sensitivity test methods.

SECTION – C

I. Elaborate on: (1 x 10 = 10)

1. Define Inflammation. Describe the Cellular Events of Inflammation.

II. Short Notes on: (3 x 6 = 18)

1. Fate of Thrombus.
2. Scurvy.
3. Iron Deficiency Anemia.
