

APRIL - 2001

[KD 509]

M.D. (Siddha) DEGREE EXAMINATION

First Year

(New Regulations)

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandhai Maruthuvam

**Branch VI — Second Year — Nanju Noolum and
Maruthuva Neethi Noolum**

Paper IV — MARUNDHIYAL

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Enlist different routes of drug administration.
Explain their advantages and disadvantages. (15)
2. Explain the pharmacology of antihypertensive drugs. (20)
3. Outline the pharmacology of drugs useful in the treatment of pain. (15)
4. Describe the pharmacology of anti-epileptic drugs. (15)

5. Pharmacological agents in the treatment of peptic ulcer disease — Explain. (15)

6. Short notes : (20)
 - (a) Cetrizine.
 - (b) Diazepam.
 - (c) Methotrexate
 - (d) Amlodipine.

NOVEMBER - 2001

[KE 509]

M.D. (Siddha) DEGREE EXAMINATION

(First Year)

(New Regulations)

Branch III — Sirappu Maruthuvam

Branch IV — Kulandai Maruthuvam

Common to Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper IV — MARUNDHIYAL

Time : Three hours

Maximum 100 marks

Answer ALL questions

1. Write briefly about the pharmacokinetics of drugs. (15)
2. Pharmacology of drugs used in the treatment of hypertension. (20)
3. Classify antiinflammatory drugs and describe their pharmacology. (20)

4. Describe action, mechanism of action, adverse effects and uses of diuretics. (15)

5. Write briefly about histamine receptors. Explain antiulcer drugs. (15)

6. Short notes (15)

(a) Carbamazepine

(b) Intravenous route

(c) Salbutamol

(c) Imipramine

MARCH - 2002

[KG 509]

M.D. (Siddha) DEGREE EXAMINATION

(New Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kulandai Maruthuvam

Common to Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper IV — MARUNDHIYAL

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Classify anti-cancer drugs. Briefly explain their pharmacology. (20)
2. Describe the common adverse effects of drugs. (15)
3. Explain the pharmacology of Bronchodilator drugs. (15)
4. Classify antiepileptic drugs. Explain their pharmacology. (20)

5. Describe antifertility drugs. (15)
6. Short notes (15)
 - (a) Amoxycillin
 - (b) Amlodipine
 - (c) Prodrug
 - (d) Oral route of administration.

SEPTEMBER - 2002

[KH 509]

M.D. (SIDDHA) DEGREE EXAMINATION

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kulandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuvam Neethi Noolum

MARUNDHIYAL

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Classify anti peptic ulcer drugs and briefly explain their pharmacology. (15)
2. Explain different routes of drug administration with their advantages and disadvantages. (15)
3. Write briefly about Elimination of drugs. (15)
4. Classify anti diabetic drugs and briefly explain the action, mechanism of action and their uses. (20)
5. Briefly outline the pharmacology of antihypertensive drugs. (15)

6. Short notes

(4 × 5 = 20)

- (a) Anaphylactic reaction
 - (b) LD 50
 - (c) Thyroxin
 - (d) Heparin
-

APRIL - 2003

[KI 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva

Neethi Noolum

MARUNDHIYAL

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Explain the different adverse effects of drugs. (15)
2. Classify anti-epileptic drugs and outline their pharmacology. (15)

3. Describe briefly the pharmacology of drugs used in angina pectoris. (15)

4. Enumerate drugs used in the treatment of bronchial asthma. Explain their pharmacology. (20)

5. Write briefly about the pharmacology of anti-fertility drugs. (15)

6. Short notes : (20)

- (a) Half life of a drug
 - (b) Ranitidine
 - (c) Aspirin
 - (d) Vincristine.
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OCTOBER - 2003

[KJ 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. What are the drugs acting on the respiratory system? Mention their uses. (20)
2. Classify antidiabetic drugs. Explain their mechanism of action. (15)

3. What are antimicrobial drugs? What is their mechanism of action? (20)

4. Classify antiepileptic drugs. What are their possible mechanism of actions? (15)

5. What are the drugs used in peptic ulcer treatment? Explain briefly their mechanism of action. (15)

6. Short notes on : (3 × 5 = 15)

- (a) Biotransformation.
 - (b) Microbiological assay.
 - (c) Laxatives.
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APRIL - 2004

[KK 509]

Sub. Code : 2113

SECTION B — (10 × 5 = 50 marks)

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

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 — (2 × 15 = 30 marks)

Long Essay :

1. What are the various routes of drug administration?

Discuss the limitations of the most commonly used route of administration of Siddha drugs.

2. What are the mechanisms of drug action? Discuss them briefly with an example.

Write short notes on :

3. Genetics and drug dose.
4. Drug allergy.
5. Cholinergic transmission.
6. Sources of drugs.
7. Placebo.
8. Approaches to Bronchial asthma therapy.
9. Adverse reactions to insulin.
10. Cognition Enhancers.
11. Analgesics.
12. Diuretics.

AUGUST - 2004

[KL 509]

Sub. Code : 2113

SECTION B

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

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)

Long Essay :

- 1. What are analysis? Discuss the probable mechanisms of action.**
- 2. What is an antimicrobial drug? Describe briefly the various mechanisms of action.**

Short notes :

(10 × 5 = 50)

- 3. Autocoids.**
- 4. Loop diuretics.**
- 5. Chelating agents.**
- 6. Purgatives.**
- 7. Mucolytics.**
- 8. Antiemetics.**
- 9. Local Haemostatics.**
- 10. Anthelmintics.**
- 11. Antidiabetic drugs.**
- 12. Antifungal agents.**

FEBRUARY - 2005

[KM 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

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)

Essays :

1. Classify analgesics. Describe the pharmacological actions and uses of morphine.
2. Classify anti anginal drugs. Describe the mechanism of action, pharmacological actions, adverse effects and uses of calcium channel blockers.

SECTION B — (10 × 5 = 50 marks)

Short notes :

3. Drugs in iron deficiency anaemia.
4. Diazepam.
5. Lignocaine.
6. Dosage calculation in children.
7. Sulfonyl urea.
8. Acid resistant penicillins.
9. Neostigmine.
10. Potassium sparing diuretics.
11. Metoclopramide.
12. Primaquine.

AUGUST - 2005

[KN 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

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

I. Long Essay :

(2 × 15 = 30)

**1. Describe the pharmacology of antiepileptic drugs.
(15)**

**2. Briefly outline the pharmacology of oral
hypoglycemic agents with suitable examples. (15)**

II. Short notes on :

(10 × 5 = 50)

- 1. Enalapril**
- 2. Pharmacokinetics**
- 3. Pansaprazole**
- 4. Chlorpromazine**
- 5. Atenalol**
- 6. Nifedipine**
- 7. Heparin**
- 8. Insulin**
- 9. Diazepam**
- 10. Spiranolactone.**

FEBRUARY - 2006

[KO 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

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. Classify NSAIDS and briefly explain their pharmacology. (15)

2. Describe briefly the pharmacology of drugs used in treating Acid Peptic Diseases. (15)

II. Short notes :

(10 × 5 = 50)

- 1. Loop diuretic.**
- 2. Insulin.**
- 3. Pharmacodynamics.**
- 4. Penicillin.**
- 5. Methotrexate.**
- 6. Dexamethazone.**
- 7. Half life of a drug.**
- 8. Enalapril.**
- 9. Imipramine.**
- 10. Ether.**

AUGUST - 2006

[KP 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

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) Transdermal therapeutic system.
(b) Pre anaesthetic medication. (10 + 10 = 20)
2. Describe the pharmacology of drugs used in the treatment of hypertension. (15)
3. Mention the various non-steroidal anti-inflammatory drugs with uses and adverse effects. (15)

II. Short notes on :

(6 × 5 = 30)

1. Nitro glycerine.
 2. Propranolol.
 3. Furosemide.
 4. Salbutamol.
 5. Ciprofloxacin.
 6. Cetirizine.
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MARCH - 2007

[KQ 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

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. Explain in detail about the Mechanism of action of drugs with suitable examples. (20)

2. Describe briefly the pharmacology of drugs used in treating asthmatic diseases. (15)

3. Classify diuretics. Briefly explain their pharmacology. (15)

II. Short notes on :

(6 × 5 = 30)

1. Idiosyncrasy.

2. Naloxone.

3. Asiprin.

4. Anaphylaxis.

5. Placebo.

6. Preanaesthetic medication.

August-2007

[KR 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

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. What are analgesics? Classify them. Write the pharmacological actions, therapeutic uses, toxicities and treatment of toxic effects of MORPHINE. (20)

2. Write briefly on 'ORAL HYPOGLYCEMIC DRUGS'. (15)

3. Explain the merits and demerits of route of drug administration. Add a note on 'New drug delivery systems'. (15)

II. Write briefly on :

(6 × 5 = 30)

1. Drugs used in AIDS.

2. Metronidazole.

3. Alprazolam.

4. Metoclopramide.

5. Synergism.

6. Sources of drugs.

March-2008

[KS 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

Q.P. Code : 322113

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 20 = 40)

1. Describe the pharmacology of drugs used in the management of Bronchial Asthma.

2. Briefly explain the mechanism of action of various drugs used in the treatment of hypertension.

II. Short notes on : (10 × 6 = 60)

1. Bioavailability.

2. Adverse effects of NSAIDs.

3. Acyclovir.

4. Ciprofloxacin.

5. Antiseptics.

6. Amiloride.

7. Naloxone.

8. Carbamazepine.

9. Nitrazepam.

10. Sulfonylureas.

[KT 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

Q.P. Code : 322113

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 20 = 40)

1. (a) Enumerate the drugs used in peptic ulcer.
(b) Discuss in detail how these drugs are useful in peptic ulcer in comparison with the drugs used in Siddha medicine.
(c) Write any one method of evaluating the anti ulcer drugs.

2. (a) Enumerate the various drugs used in arthritis.

(b) Discuss the differences in action of these drugs and the drugs used in Siddha medicine.

(c) Write any one method of evaluating anti inflammatory drugs.

II. Short notes : (10 × 6 = 60)

1. Laboratory animals.
2. Cardiac stimulants.
3. Cough suppressants.
4. Drugs used in Breast cancer.
5. Anti diarrhoeal drugs.
6. Iron in therapy.
7. Oral route of drug administration.
8. Anti scabetic agents.
9. Isolated organ bath.
10. Sources of drugs.

[KU 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

Q.P. Code : 322113

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 20 = 40)

1. Outline the pharmacology of oral hypoglycemic drugs including action, mechanism, adverse effects with suitable examples.

2. Classify diuretics and briefly explain their pharmacology.

II. Short notes :

(10 × 6 = 60)

1. Diazepam
2. Amlodipine
3. Heparin
4. Half life of a drug
5. Erythromycin
6. Atenolol
7. Aspirin
8. Prodrug
9. Therapeutic index
10. Biotransformation.

[KV 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

Q.P. Code : 322113

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 20 = 40)

1. (a) Define Bio transformation.

(b) Describe various types of Bio transformation with cytochrome P₄₅₀ enzyme and its clinical significance.

(c) What is meant by "ENTERO HEPATIC CIRCULATION" of drugs?

2. (a) Enumerate the drugs used as anti hypertensives.

(b) Write the mechanism of Action, pharmacological action, and adverse effects of "ENALAPRIL".

(c) Mention the management of hypertensive emergency.

II. Short notes : (10 × 6 = 60)

1. Atropine.

2. Propranolol.

3. Lidocaine.

4. Placebo.

5. Active transport of drugs.

6. Panto prazole.

7. Sublingual route.

8. Teratogenicity.

9. Post marketing surveillance.

10. Ofloxacin.

September 2010

[KX 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi
Noolum

MARUNDHIYAL

Q.P.Code : 322113

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 20 = 40)

1. Enumerate the drugs used in bronchial asthma, and discuss the pharmacology of any one group. Compare the above group with the relevant group of drugs used in siddha.

2. Mention the different group of drugs used in hypertension and discuss the advantages and disadvantages of any one group. Compare these drugs with the equivalent drugs used in siddha.

II. Short notes : (10 × 6 = 60)

1. Topical antifungals.
2. Albendazole.
3. Hydrochlorothiazide versus siddha diuretics.
4. Datura poisoning.
5. Parenteral iron preparations.
6. Drugs used in anaphylaxis.
7. Antiemetics.
8. Amino penicillins.
9. Enumerate any five antiseptics.
10. Desferroxamine.

MAY 2011

[KY 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

(New/Revised Regulations)

First Year

Branch III — Sirappu maruthuvam

**Branch IV — Kuzhandai Maruthuvam
(Common to Second Year)**

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

Q.P. Code : 322113

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay :

(2 x 20 = 40)

1. Discuss the pharmacotherapy of epilepsy.
Add a note on the management of status epilepticus.
2. Classify the various route of administration of drugs. Write the advantage and disadvantage of oral route, intra muscular route and intra venous route.

II. Short notes :

(10 x 6 = 60)

1. Acute toxicity.
 2. Morphine.
 3. Lithium.
 4. Atrophine.
 5. Succinyl choline.
 6. Antithyroid drugs.
 7. Insulin in therapy.
 8. Nitrates in angina.
 9. Ciprofloxacin.
 10. Drugs used in leprosy.
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October 2011

[KZ 509]

Sub. Code: 2113

DOCTOR OF MEDICINE (M.D.) SIDDHA DEGREE EXAMINATION

FIRST YEAR

BRANCH III – SIRAPPU MARUTHUVAM

BRANCH IV – KUZHANDAI MARUTHUVAM

&

SECOND YEAR

BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM

MARUNDHIYAL

Q.P. Code : 322113

**Time : Three hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. What is congestive cardiac failure and classify the drugs used? Write the mechanism of action, Pharmacological action and adverse effect of cardiac glycosides?	11	35 min.	15
2. Classify Oral hypoglycemic agents. Write the mechanism of action and Pharmacological actions of Biguanides.	11	35 min.	15

II. Write notes on :

1. Classify beta blockers. Mention the cardiovascular and non-cardiovascular uses of beta blockers.	4	10 min.	7
2. Write the mechanism of action of Benzodiaepines and Barbiturates.	4	10 min.	7
3. Pharmacotherapy of Bronchial asthma.	4	10 min.	7
4. Classification of anti-arrythmic agents.	4	10 min.	7
5. Chemotherapy of Tuberculosis.	4	10 min.	7
6. Write the mechanism of drug absorption across the membrane.	4	10 min.	7
7. Explain teratogenecity.	4	10 min.	7
8. Write three major mechanism of anti-convulsant action.	4	10 min.	7
9. Write short notes on proton pump inhibitors.	4	10 min.	7
10. What is Rheumatoid arthritis and classify drugs used?	4	10 min.	7

2012

[LA 509]

Sub. Code : 2113

M.D. (SIDDHA) DEGREE EXAMINATION.

First Year

(Common to Sirappu Maruthuvam and Kuzhandhai Maruthuvam Branches)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper IV — MARUNDHIYAL (Pharmacology)

Q.P. Code : 322113

Time : Three hours (180 minutes)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :	Pages	Time	Marks
1. Classify the Non Steroidal Anti Inflammatory Drugs (NSAIDs). Write mechanism of action, pharmacological action, adverse effects and uses of aspirin.	(Max.) 11	(Max.) 35 min.	(Max.) 20
2. Classify the antihypertensive drugs. Write the mechanism of action, pharmacological action, adverse effects and uses of angiotensin converting enzyme inhibitors.	11	35 min.	20
II. Write notes on :			
1. Sublingual route.	4	10 min.	6
2. Therapeutic index.	4	10 min.	6
3. Write a note on diazepam.	4	10 min.	6
4. Preanaesthetic medication.	4	10 min.	6
5. Write a note on dopamine.	4	10 min.	6
6. Second generation antihistamines.	4	10 min.	6

7. Management of acute bronchial asthma.	4	10 min.	6
8. High ceiling diuretics.	4	10 min.	6
9. Low molecular weight heparin.	4	10 min.	6
10. Alkylating agents.	4	10 min.	6

[LB 509]

Sub. Code : 2113

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

First Year

Branch III — Sirappu Maruthuvam

Branch IV — Kuzhandai Maruthuvam

(Common to Second Year)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

MARUNDHIYAL

Q.P. Code : 322113

Time : 180 minutes

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :	Pages	Time	Marks
1. Classify Anti-convulsants. Write the different mechanism of action of anti-convulsant drugs. Describe the therapy of Status epileptics.	(Max.) 11	(Max.) 35 min.	(Max.) 20
2. With a neat diagram enumerate various sites of diuretics. Explain the mechanism of action, therapeutic uses and adverse effects of Loop diuretics.	11	35 min.	20
II. Write notes on :			
1. What is receptor? Classify according to transduction mechanism.	4	10 min.	6
2. Define the following terms : Mutagenicity, Tachyphylaxis, Antagonism.	4	10 min.	6
3. Write the mechanism of action and adverse effects of Major tranquilizers.	4	10 min.	6
4. Chemotherapy of Leprosy.	4	10 min.	6
5. Write a note on oral hypoglycemic agents.	4	10 min.	6
6. Name three non sedative H ₁ blockers and mention their therapeutic implications.	4	10 min.	6

- | | | | |
|--|---|---------|---|
| 7. Write a note on organo phosphorous poisoning. | 4 | 10 min. | 6 |
| 8. Write the mechanism of action of following antibiotics.
(a) Sulfonamide
(b) Streptomycin. | 4 | 10 min. | 6 |
| 9. Name three angiotensin antagonist and write their mechanism of action. | 4 | 10 min. | 6 |
| 10. Pharmacotherapy of cough. | 4 | 10 min. | 6 |
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[LC 509]

SUB CODE : 2113

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

FIRST YEAR

**(Common to Sirappu Maruthuvam & Kuzhandhai Maruthuvam
Branches)**

SECOND YEAR

BRANCH IV- Nanju Noolum Maruthuva Neethi Noolum

PAPER IV – MARUNDHIYAL (Pharmacology)

Q.P.Code : 322113

Time : 3 hours

Maximum: 100 marks

I. Long Essay:

(2x20=40)

1. Classify analgesics. Describe the pharmacological actions, therapeutic uses, adverse effects & contraindications of morphine.
2. Classify anti-cholinergic drugs. Discuss in detail the actions, adverse effects and uses of atropine.

II. Short Notes:

(10x6=60)

1. Drug Interactions.
2. Skeletal muscle relaxants.
3. Pre-anaesthetic medication
4. Proton-pump inhibitors.
5. Write briefly on Digoxin
6. Oral Anti-coagulants.
7. Write a note on sulphonylureas
8. Extended spectrum penicillins.
9. Anti-malarial Drugs.
10. Inhalational drugs used in Bronchial asthma.

[LD 509]

SUB CODE : 2113

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

FIRST YEAR

**(Common to Sirappu Maruthuvam & Kuzhandhai Maruthuvam
Branches)**

SECOND YEAR

BRANCH IV- Nanju Noolum Maruthuva Neethi Noolum

PAPER IV – MARUNDHIYAL (Pharmacology)

Q.P.Code : 322113

Time : 3 hours

Maximum: 100 marks

I. Long essay:

(2x20=40)

1. Classify anti-epileptic drugs. Discuss in detail the mechanism of action, kinetics & adverse effects of phenytoin.
2. Classify drugs used in diabetes mellitus. Discuss in detail the Actions & adverse effects of oral hypoglycaemic drugs.

II. Short notes:

(10x6=60)

1. Parenteral routes of drug administration.
2. Uses and adverse effects of Beta-adrenergic blockers.
3. Write Briefly in Aspirin.
4. Drugs used for vomiting
5. Anti-anginal drugs
6. Drugs used in hyperlipidaemia.
7. Oral contraceptives
8. Aminoglycoside antibiotics.
9. Write a note on ketoconazole
10. Second generation H1-antihistaminics.

**M.D. (SIDDHA) DEGREE EXAMINATION
FIRST YEAR**

(Common to Sirappu Maruthuvam & Kuzhandhai Maruthuvam Branches)

SECOND YEAR

Branch VI – Nanju Noolum Maruthuva Neethi Noolum

Paper IV – MARUNDHIYAL (Pharmacology)

Q.P. Code : 322113

Time : Three Hours

Maximum : 100 marks

I. Write Essay on the following: (2X20=40)

1. Classify Oral hypoglycemic agents. Write the mechanism of action and pharmacological actions of Biguanides.
2. With a neat diagram, enumerate various sites of action of diuretics. Explain the mechanism of action, therapeutic uses and adverse effects of Loop diuretics.

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

1. What is receptor? Classify according to transduction mechanism.
2. Define the following terms: Mutagenicity, Tachyphylaxis, Antagonism.
3. Write the mechanism of action and adverse effects of Major tranquilizers.
4. Write short notes on Beta lactam antibiotics.
5. Explain the therapeutic indications of Beta blockers.
6. Name three non-sedative H₁ blockers and mention their therapeutic implications.
7. Write a note on organo-phosphorous poisoning.
8. Explain the pharmacological importance of plasma protein binding.
9. Name three angiotensin antagonists and write their mechanism of action.
10. Write the pharmacotherapy of Nitrates.

M.D.(SIDDHA) DEGREE EXAMINATION

FIRST YEAR - BRANCH III & IV

SECOND YEAR - BRANCH VI

MARUNDHIYAL

(Pharmacology)

Q.P. Code : 322113

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define Diabetes mellitus and classify diabetic agents. Write a Mechanism of action, pharmacological actions and therapeutic uses.
2. Write a detailed account of drug metabolism and factors affecting drug metabolism.

II. Short Notes:

(10 x 6 = 60)

1. What is Bioassay?
2. Define the following terms: Therapeutic index, Agonist, ED₅₀.
3. Write the mechanism of action and adverse effects of Steroids.
4. Write short notes on Sulfonamides.
5. Explain the therapeutic indications of Beta blockers.
6. Write a note on Anti-diuretic drugs.
7. Write a note on COX-2 inhibitors.
8. Write a note on anti-epileptic drugs.
9. Write a brief account on Parkinsonism agents.
10. Discuss the pharmacotherapy of congestive cardiac failure.

M.D. (SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH III & IV – SIRAPPU MARUTHUVAM & KUZHANDHAI MARUTHUVAM

PAPER IV – MARUNDHIYAL

(Pharmacology)

Q.P. Code : 322113

Time: Three Hours

Maximum : 100 Marks

Answer ALL questions in the same order

I. Elaborate on:

(2 x 20 = 40)

1. Classify antiepileptic drugs and discuss in detail about the pharmacological actions and therapeutic uses of phenytoin.
2. Mention the drugs used in the treatment of diabetes mellitus.
Write briefly about pharmacological actions and therapeutic uses of oral hypoglycemic drugs.

II. Write Notes on:

(10 x 6 = 60)

1. Special drug delivery system.
2. Drug metabolism.
3. Adverse drug reactions.
4. Uses of benzodiazepines.
5. Cholinomimetic alkaloids.
6. Calcium channel blockers.
7. Second generation antihistamines.
8. Beta-adrenergic blockers.
9. Adverse effects of aminoglycosides.
10. Amphotericin B.

[LH 2113]

OCTOBER 2015

Sub. Code: 2113

M.D.(SIDDHA) DEGREE EXAMINATION

BRANCH III & IV – FIRST YEAR

BRANCH VI – SECOND YEAR

**BRANCH III, IV & VI – SIRAPPU MARUTHUVAM, KUZHANDHAI
MARUTHUVAM & NANJU NOOLUM MARUTHUVA NEETHI NOOLUM
MARUNDHIYAL**

(PHARMACOLOGY)

Q.P. Code : 322113

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Classify general anaesthetics and describe in detail about the pharmacological actions and therapeutic uses of Inhalational anaesthetics.
2. What are anti-asthmatic drugs? Classify them and describe the pharmacological actions and therapeutic uses of bronchodilators.

II. Short Notes on:

(10 x 6 = 60)

1. Toxicity studies in animals.
2. Preanaesthetic medications.
3. Biotransformation.
4. Actions of digitalis.
5. Levodopa.
6. High ceiling diuretics.
7. Therapeutic uses of Antianginal drugs.
8. Anti-tussives.
9. Non-systemic antacids.
10. Antidiarrhoeal drugs.

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

PAPER IV – MARUNDHIYAL
(Pharmacology)

Q.P. Code :322113

Time: Three Hours

Maximum : 100 Marks

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

1. Define Pharmacokinetics and explain in detail about various factors affecting the absorption of drugs by giving suitable examples.
2. What are opioid analgesics? Classify them. Write the pharmacological actions and therapeutic uses of opioid analgesics.

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

1. Sources of drugs.
2. Anti – anxiety drugs.
3. Uses of atropine.
4. Oral iron preparations.
5. Drug interactions in Man.
6. Heparin.
7. Uses of penicillin G.
8. Antiemetics.
9. Expectorants.
10. 5-HT₃ antagonist.

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

PAPER IV – MARUNDHIYAL
(Pharmacology)

Q.P. Code :322113

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define pharmacodynamics and explain in detail about various factors that modify the effects of drugs by giving suitable examples.
2. What are sedatives and hypnotics? Classify them. Write the pharmacological actions and therapeutic uses of benzodiazepines.

II. Write Notes on:

(10 x 6 = 60)

1. Advantages and disadvantages of Parenteral route.
2. Write a note on plasma half-life of drugs.
3. Give a brief account on adverse drug reactions.
4. Therapeutic uses of Belladonna alkaloids.
5. Write a note on Carbamazepine.
6. Give a brief account on Antitussives.
7. Uses of Fluoroquinolones.
8. Write a brief account on anti-diarrhoeals.
9. Write a note on Hormonal contraceptives.
10. Write a note on various preparations of Insulin.

M.D. (SIDDHA) DEGREE EXAMINATION

FIRST YEAR

BRANCH III, IV & VI

PAPER IV – MARUNDHIYAL

(Pharmacology)

Q.P. Code :322113

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. What are Diuretics? Classify them. Write in detail about the pharmacological actions and therapeutic uses of Loop diuretics.
2. Classify antineoplastic agents and explain in detail about pharmacological actions and therapeutic uses of Antimetabolites.

II. Write Notes on:

(10 x 6 = 60)

1. Write a note on drug receptor.
2. Give a detail note on drug assay.
3. Write a note on preanaesthetic medication.
4. Uses of Antidepressants.
5. Therapeutic use of Antiplatelet drugs.
6. Therapeutic uses of β -blockers.
7. Write a note on chloramphenicol.
8. Give a brief note on antithyroid drugs.
9. Write a note on oral antidiabetic drugs.
10. Adverse effects of Glucocorticoids.

M.D. (SIDDHA) DEGREE EXAMINATION

FIRST YEAR

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

SECOND YEAR

BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM

MARUNDHIYAL

(Pharmacology)

Q.P. Code :322113

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Classify anti-ulcer drugs and describe in detail about the pharmacological actions and therapeutic uses of proton-pump inhibitors.
2. Define 'Haematinics'? And explain in detail about the pharmacological actions and therapeutic uses of Oral iron preparations.

II. Write Notes on:

(10 x 6 = 60)

1. Methods of prolonging drug action.
2. Give a brief account on transport of drugs across biological membranes.
3. Write a note on special drug delivery systems.
4. Therapeutic uses of Adrenaline.
5. Therapeutic uses of Angiotensin converting enzyme inhibitors.
6. Write a note on Levodopa.
7. Therapeutic uses of Erythromycin.
8. Give a brief account on the pharmacological actions of Antihistamines.
9. Write a note on 5HT₃ Antagonists.
10. Therapeutic uses of cephalosporins.

M.D. (SIDDHA) DEGREE EXAMINATION

**BRANCH III, IV & VI – SIRAPPU MARUTHUVAM, KUZHANDHAI
MARUTHUVAM & NANJU NOOLUM MARUTHUVA NEETHI NOOLUM**

MARUNDHIYAL
(Pharmacology)

Q.P. Code :322113

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe about the pharmacokinetics of drugs.
2. Write a classification, mechanism of action, pharmacological actions and adverse effects of NSAIDs?

II. Write Notes on:

(10 x 6 = 60)

1. Write short notes on renal clearance?
2. Discuss the pharmacotherapy of angina pectoris?
3. Explain hypersensitivity reactions?
4. Write a note on anticonvulsants.
5. Define the following terms: Therapeutic index, Antagonist, LD₅₀
6. Write the mechanism of action and adverse effects of Diazepam?
7. Write short notes on Broad spectrum antibiotics?
8. Briefly describe about selective beta-2 agonists?
9. Write a note on anticholinergics?
10. Explain mucoprotective?

[LN 2113]

OCTOBER 2018

Sub. Code: 2113

M.D. (SIDDHA) DEGREE EXAMINATION

FIRST YEAR

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

**PAPER IV – MARUNDHIYAL
(Pharmacology)**

Q.P. Code :322113

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Classify the drugs used in congestive cardiac failure? Describe in detail about the mechanism of action, Pharmacological action and adverse effect of cardiac glycosides?
2. Classify Oral hypoglycemic agents? Write the mechanism of action and Pharmacological actions of Sulfonylureas?

II. Write Notes on:

(10 x 6 = 60)

1. Write the symptoms and treatment for organophosphorous poisoning.
2. Describe the mechanism of action of following drugs
 - a) NSAIDs
 - b) Atypical neuroleptics
3. Write the pharmacotherapy of Nitrates.
4. Explain carcinogenicity.
5. What are non sedative H₁ blockers and mention their therapeutic implications?
6. Discuss in detail about Leuckotriene antagonists.
7. What is receptor? Classify according to transduction mechanism.
8. Write short notes on Proton pump inhibitors.
9. Write a note on high ceiling diuretics.
10. What are tricyclic anti-depressants?

[LO 2113]

MAY 2019

Sub. Code: 2113

M.D. (SIDDHA) DEGREE EXAMINATION

FIRST YEAR

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

**PAPER IV – MARUNDHIYAL
(Pharmacology)**

Q.P. Code :322113

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Classify antihypertensive drugs and describe in detail about the pharmacological actions and therapeutic uses of ACE-inhibitors.
2. Classify preparations of Insulin. And explain in detail about the actions of insulin, mechanism and side effects of Insulin preparations.

II. Short Notes:

(10 x 6 = 60)

1. What is Jet injection? Where it is used?
2. Bioavailability is frequently lower after oral absorption. Why?
3. Explain plasma protein binding of drugs influences the duration of action of drugs.
4. What is phase-I reaction? Give examples.
5. What are the actions of atropine on secretions?
6. Why loop diuretics are called “High ceiling diuretics”?
7. Explain the mechanism of action of Omeprazole and mention specific indication of its uses.
8. Mention the therapeutic uses of Penicillin as the choice for several infections.
9. Write a note on the fourth generation of cephalosporins and mentions its therapeutic uses.
10. Write a note on Methotrexate and mentions its therapeutic uses.

[LP 2113]

OCTOBER 2019

Sub. Code: 2113

**M.D. (SIDDHA) DEGREE EXAMINATION
COMMON TO BRANCH III & IV & VI- SIRAPPU MARUTHUVAM &
KUZHANDHAI MARUTHUVAM**

**PAPER IV – MARUNDHIYAL
(Pharmacology)**

Q.P. Code :322113

Time: Three Hours

Maximum : 100 Marks

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

1. Write a detailed account on Biotransformation of drugs and factors affecting it.
2. Classify Anti-convulsants. Write the different mechanism of action of anti-convulsant drugs. Describe the therapy of petitmal epilepsy.

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

1. Write a note on opioid analgesics.
2. Explain the therapeutic uses of Calcium channel blockers.
3. Write a note on Barbiturate poisoning.
4. What is plasma protein binding?
5. Write a note on COX-2 inhibitors.
6. Describe the Pharmacotherapy of Hypertension.
7. How do you classify anti-asthmatic agents?
8. Write short notes on Penicillins.
9. Write a brief account on anti-cancer agents.
10. Write the mechanism of action and adverse effects of ACE inhibitors.
