

APRIL - 2001

[KD 537]

M.D. (Siddha) DEGREE EXAMINATION

(Old/New Regulations)

Second Year

Branch VI — Nanjunool and Maruthuva Neethi Nool

Paper IV — EXPERIMENTAL PHARMACOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. How will you evaluate drugs for their adverse effects? (15)
2. How will you prove that a new substance has pharmacological activity? (20)
3. Explain why animal tests often give false results. Give examples. (15)
4. Name a few analgesics. Describe evaluation of analgesics. (15)
5. Describe the methods involved in evaluating local anaesthetics. (15)

6

Short notes

(20)

(a) Atenolol

(b) Convulsimeter

(c) Strychnine

(d) Atropine

NOVEMBER - 2001

[KE 537]

M.D. (Siddha) DEGREE EXAMINATION.

(Old/New Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper IV — EXPERIMENTAL PHARMACOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. What is primary screening of drugs? Explain the procedure. (20)
2. Explain the limitations of animal experiments. (15)
3. Define bioassay. Explain the advantages and disadvantages of bioassay with examples. (20)
4. How will you prove that a drug is hypotensive? (15)
5. Describe the methods of evaluating anti-inflammatory drugs. (15)

6. Short notes :

(15)

- (a) Acto photometer
 - (b) Enalapril
 - (c) Microbiological assay
 - (d) Anaphylaxis.
-

MARCH - 2002

[KG 537]

M.D. (Siddha) DEGREE EXAMINATION.

(Old/New Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper IV — EXPERIMENTAL PHARMACOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. How will you evaluate adverse effects of drugs?
(15)
2. Enumerate different anti-diabetic drugs and explain the methods of testing hypoglycemic drugs. (20)
3. Describe the different methods of testing anti gastric ulcer drugs. (15)
4. How will you prove that a new compound has pharmacological activity? (15)
5. Enumerate drugs available for family planning and explain the experimental methods available for screening anti fertility drugs. (20)

6 Short Notes

(15)

- (a) Bio-assay
 - (b) Atropine
 - (c) Loop diuretic.
-

SEPTEMBER - 2002

[KH 537]

M.D. (SIDDHA) DEGREE EXAMINATION

(Revised Regulation)

Second Year

Branch VI — Nanju Noolum Maruthuva
Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

- 1 How will you prove the toxicity of a drug? (15)
- 2 Explain the methods of evaluation of antifertility drugs (15)
- 3 Classify NSAIDS How will you evaluate anti-inflammatory agents? (20)
- 4 Give examples for anti-histamines. How will you prove that a drug is anti-histamine? (15)
- 5 How will you evaluate diuretics? (15)

6 Short notes

(4 × 5 = 20)

- (a) Half life of a drug
- (b) Microbiological assay
- (c) Plethysmograph
- (d) Isolated organ bath.

APRIL - 2003

[KI 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

Second Year

(Revised Regulations)

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Explain advantages and disadvantages of bio assay. (15)
2. How will you prove that a drug is local anesthetic? (15)
3. Write briefly about oral antidiabetic drugs and methods of evaluating them. (20)
4. What are the disadvantages of animal tests? (15)
5. How will you establish that a drug is useful in the treatment of cancer? (15)

6. Short notes :

(4 × 5 = 20)

- (a) Pyloric ligation in rats.
 - (b) Digoxin.
 - (c) Caragenin edema.
 - (d) Anti histamine.
-

OCTOBER - 2003

[KJ 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Write briefly on 'drug toxicities' in humans. (15)
2. What is bioassay? Explain in detail the principles and methods of bioassay. (20)
3. How will you screen a new-drug for unknown activity? (20)
4. What is an analgesic? How will you evaluate a compound for analgesic activity? (15)
5. Discuss in brief the various factors modifying the effect of drugs. (15)

6. Short notes on :

(3 × 5 = 15)

- (a) Microbiological assay.
 - (b) Drug excretion.
 - (c) Limitations of animal tests.
-

APRIL - 2004

[KK 537]

Sub. Code : 2164

SECTION B

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

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 :

1. How will you prove that the given drug is a local anesthetic? (15)
2. Describe the various methods of evaluating antiinflammatory drug. (15)

Short notes :

(10 × 5 = 50)

3. Bioassay.
4. Atropine.
5. Morphine.
6. Aspirin.
7. Rotarod apparatus.
8. Strychnine.
9. Prodrug.
10. Dale's phenomenon.
11. Amlodipine.
12. Antitussives.

AUGUST - 2004

[KL 537]

Sub. Code : 2164

SECTION B

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

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. Explain the methods of evaluating antidiabetic drugs. (15)

2. Describe in detail the methods of proving the efficacy of analgesics. (15)

Short notes :

(10 × 5 = 50)

- 3. Therapeutic index.**
 - 4. Omepragose.**
 - 5. Methotrexate.**
 - 6. Antihistamine.**
 - 7. Digoxin.**
 - 8. Pole climbing apparatus.**
 - 9. Metronidazole**
 - 10. Plethysmograph.**
 - 11. Isolated organ bath.**
 - 12. Atenolol.**
-

FEBRUARY - 2005

[KM 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

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. How will you evaluate an anti hypertensive drug?
2. How will you screen a new compound claimed to be an anti-histamine?

SECTION B — (10 × 5 = 50 marks)

Short notes on :

3. First pass effect.
4. Bioassay.
5. Pyloric ligation in rats.
6. Caragenin edeme.
7. Idiosyncrasy.
8. Definition of adverse effects of drugs.
9. Various routes of drug administration.
10. Dale's phenomenon.
11. Rotarod apparatus.
12. Aspirin.

AUGUST - 2005

[KN 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

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. Describe briefly bioassay of drugs. (15)

2. Write a note on digitalis and explain the methods of evaluating Cardiotonics. (15)

II. Short notes : (10 × 5 = 50)

1. Pharmacokinetics.

2. Yeast induced hyperthermia.

3. Adjuvant arthritis.

4. Guinea pig wheal method.

5. Pyloric ligation.

6. ACE inhibitors.

7. Isolated rat atrium.

8. Rota rod apparatus.

9. Alloxan.

10. Aspirin.

FEBRUARY - 2006

[KO 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

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 oral hypoglycaemic drugs and explain
methods of valuating anti diabetic drugs. (15)**

**2. Describe the various methods of testing anti
convulsant drug. (15)**

II. Short notes :

(10 × 5 = 50)

1. Antitussives

2. Amylodipine

3. Famotidine

4. Aspirin

5. Heparin

6. Analgesio meter

7. Cotton pellet granu loma

8. Rotarod

9. Shay rat

10. Isolated organ bath.

AUGUST - 2006

[KP 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

**Branch VI — Nanju Noolum Maruthuva
Neethi Noolum**

Paper III — EXPERIMENTAL PHARMACOLOGY

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 the questions.

I. Long Essay :

1. (a) Induction of fever in experimental animals.

**(b) Merits and demerits of topical preparations.
(10 + 10 = 20)**

**2. Discuss in detail the various factors which can
modify actions of drugs. (15)**

**3. Write a note on the drugs used in fertility control
and explain the methods for evaluating antifertility
drugs. (15)**

II. Short notes :

(6 × 5 = 30)

1. Therapeutic drug monitoring

2. Orphan drugs

3. Evaluation of local anesthetics

4. Leptazol.

5. H₁ antihistamines.

6. Oral hypoglycemic agents.

March-2008

[KS 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

Q.P. Code : 322164

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

I. Long Essay : (2 × 20 = 40)

(1) Describe in detail the various animals used in experiments with disadvantage of animal test.

(2) Classify diuretics and explain the various methods of evaluation of diuretics.

II. Short notes : (10 × 6 = 60)

(1) Hyper sensitivity reaction

(2) Drug antagonism

(3) Adrenaline

(4) Cotton pellet pouch

(5) Eddy's hot plate

(6) Jingle cage

(7) Actophotometer

(8) Oxytocin

(9) Biotransformation of drugs

(10) Bronchodilators

September-2008

[KT 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

Q.P. Code : 322164

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 20 = 40)

1. What is screening of drugs? How will you prove a drug is pharmacologically active? (20)

2. Explain the chronic and acute toxicity tests. (20)

II. Short notes : (10 × 6 = 60)

1. Tolerance.

2. Convulsiometer.

3. Drug Abuse.

4. Atropine.

5. Morphine.

6. Diazepam.

7. Leptazol.

8. Charcoal Meal.

9. Orphane drugs.

10. H₁ Anti Histamins.

[KU 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

Q.P. Code : 322164

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

I. Long Essay : (2 × 20 = 40)

1. Write briefly about digitalis. Describe the methods of evaluating cardio Sonics.
2. Briefly explain the uses of local anesthetics and the methods of evaluating local anesthetics.

II. Short notes :

(10 × 6 = 60)

1. Teretogenity.
2. Antipyretic Test.
3. Orphan drugs.
4. Drug Allergy.
5. Heparin
6. Ether.
7. Omeprazole.
8. Dose response curve.
9. Antitussives
10. Plasma Half life.

March 2010

[KW 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

Q.P. Code : 322164

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

I. Long Essay : (2 × 20 = 40)

1. Classify Bioassay. Explain four point bioassay method.
2. Explain the evaluation methods of analgesics and anti-inflammatory agents.

II. Short notes : (10 × 6 = 60)

1. Write the screening method of anti-diabetic agents.
2. Evaluation method of anti-ulcer drugs.

3. Microbiological assay of Siddha drugs.
4. Acute toxicity evaluation of Siddha formulation.
5. Write the anti-histamines screening methods.
6. Hepato protective drugs evaluation methods.
7. Screening method of diuretics.
8. Evaluation methods of anti-diarrhoeal agents.
9. Why the toxicity studies mandatory in Siddha drugs?
10. Evaluation methods of CNS stimulants.

September 2010

[KX 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

(Revised Regulations)

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

Q.P. Code : 322164

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

I. Long Essay : (2 × 20 = 40)

1. Describe the experimental procedures you will adopt to screen a new drug and write briefly about the limitations of animal studies.
2. How will you evaluate the drugs used for Odema?

II. Short notes :

(10 × 6 = 60)

1. Sublingual route.
2. Dose Response Curve.
3. Drug toxicities.
4. Biotransformation.
5. Pre anaesthetic medication.
6. Flumazinil.
7. Actophotometer.
8. Granuloma pouch.
9. Intradermal wheal method.
10. Tracheal chain method.

October 2011

[KZ 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

SECOND YEAR

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

Q.P. Code : 322164

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. How will you evaluate anti ulcer drugs?	11	35 min.	20
2. How will you evaluate the drugs used in cardiac failure?	11	35 min.	20

II. Write notes on :

1. Prodrug.	4	10 min.	6
2. First pass metabolism.	4	10 min.	6
3. Tachyphylaxis.	4	10 min.	6
4. Carbamazepine.	4	10 min.	6
5. Codeine.	4	10 min.	6
6. Rotarod.	4	10 min.	6
7. Hind paw odema.	4	10 min.	6
8. Arthus reaction.	4	10 min.	6
9. Analgesiometer.	4	10 min.	6
10. Heparin.	4	10 min.	6

April 2012

[LA 537]

Sub. Code : 2164

M.D. (SIDDHA) DEGREE EXAMINATION.

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

Q.P. Code : 322164

Time : Three hours (180 minutes)

Maximum : 100 marks

Answer ALL questions in the same order.

I.	Elaborate on :	Pages	Time	Marks
1.	Explain in detail about different routes of drug administration by giving suitable examples.	11	35 min.	20
2.	Classify diuretics and describe elaborately how drugs are evaluated used in treatment of oedema.	11	35 min.	20
II.	Write notes on :			
1.	Toxicity studies.	4	10 min.	6
2.	Eddys hot plate.	4	10 min.	6
3.	Cotton pellet method.	4	10 min.	6
4.	Tracheal chain method.	4	10 min.	6
5.	Drug interactions.	4	10 min.	6
6.	Rotarod.	4	10 min.	6
7.	Arthus reactions.	4	10 min.	6
8.	Experimental pleurisy.	4	10 min.	6
9.	Maximal electroshock test.	4	10 min.	6
10.	Plethysmograph.	4	10 min.	6

[LB 537]

Sub. Code : 2164

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

Second Year

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper III — EXPERIMENTAL PHARMACOLOGY

Q.P. Code : 322164

Time : 180 minutes

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :	Pages	Time	Marks
1. Write in detail about screening of drugs used as analgesics.	(Max.) 11	(Max.) 35 min.	(Max.) 20
2. Describe about the drugs used in the treatment of fever (antipyretics).	11	35 min.	20
II. Write notes on :			
1. Tolerance.	4	10 min.	6
2. Topical applications.	4	10 min.	6
3. Organophosphorous poisoning.	4	10 min.	6
4. Adverse reaction of oral contraceptives.	4	10 min.	6
5. Therapeutic index.	4	10 min.	6
6. Dose-response curve.	4	10 min.	6
7. Pharmacovigilance.	4	10 min.	6
8. New Tetracyclines.	4	10 min.	6
9. Orphan drugs.	4	10 min.	6
10. Translational pharmacology.	4	10 min.	6

[LC 537]

SUB CODE : 2164

**M.D. (SIDDHA) DEGREE EXAMINATION – APRIL 2013
SECOND YEAR**

BRANCH IV- Nanju Noolum Maruthuva Neethi Noolum

PAPER III – EXPERIMENTAL PHARMACOLOGY

Q.P.Code : 322164

Time : 3 hours

Maximum: 100 marks

I. Long Essay : (2x20=40)

1. What is biotransformation. Explain with examples.
2. Describe in detail evaluation of Siddha drugs used in mental disorders.

II. Short Notes: (10x6=60)

1. Drug tolerance.
2. Microbiological assay
3. Preclinical screening of drugs.
4. Therapeutic index.
5. Bio-availability
6. Histamine chamber
7. Metabolic cage.
8. Acute toxicity studies.
9. Elimination of drugs.
10. Drug antagonism.

[LD 537]

SUB CODE : 2164

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

SECOND YEAR

BRANCH IV- Nanju Noolum Maruthuva Neethi Noolum

PAPER III – EXPERIMENTAL PHARMACOLOGY

Q.P.Code : 322164

Time : 3 hours

Maximum: 100 marks

I. Long Essay:

(2x20=40)

1. Define adverse drug reaction. Explain in detail with examples.
2. Describe in detail about evaluation of Siddha drug used in fertility control.

II. Short Notes:

(10x6=60)

1. Principles of Bioassay.
2. Pharmacogenomics
3. Evaluation of Siddha drug used in fever.
4. Drug synergism
5. Eletro convulsometer
6. Pole climbing apparatus
7. Newer drug delivery systems
8. Plasma half life
9. Drug dose response curve
10. Therapeutic window.

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

**Branch VI – Nanju Noolum Maruthuva Neethi Noolum
PAPER –III – EXPERIMENTAL PHARMACOLOGY**

Q.P. Code :322164

Time : Three Hours

Maximum : 100 marks

I. Long Essay : **(2X20=40)**

1. Classify NSAIDs and discuss the pharmacological properties of Salicylates and describe different methods of evaluation of anti-inflammatory drugs.
2. Classify anti-asthmatic drugs and explain in detail how the drugs are evaluated in the treatment of bronchial asthma.

II. Short notes: **(10X6=60)**

1. Therapeutic window.
2. Plasma half-life.
3. Antihypertensive evaluations.
4. Antifertility studies.
5. Adjuvant arthritis.
6. Streptozotocin diabetes.
7. Evaluations of haematinics.
8. Anti-Diarrhoeals.
9. Elevated plus maze.
10. Evaluation of local anaesthetics.

[LF 2164]

OCTOBER 2014

Sub.Code :2164

M.D.(SIDDHA) DEGREE EXAMINATION

SECOND YEAR

BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM

PAPER III – EXPERIMENTAL PHARMACOLOGY

Q.P. Code :322164

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define different route of administration and mechanism of action of drugs with example.
2. Describe in detail evaluation of Siddha drugs used in Bronchial asthma.

II. Short Notes:

(10 x 6 = 60)

1. Bio -assay.
2. Kinetic's of drugs.
3. Evaluation of drugs used in fever.
4. Clinical Drug Trial
5. Drug toxicity.
6. Limitation of animal tests.
7. Rota rod.
8. Evaluation of drugs used in fertility control
9. Tetragonality
10. Evaluation of drugs used in purgative action.

**M.D.(SIDDHA) DEGREE EXAMINATION
SECOND YEAR
BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM
PAPER III – EXPERIMENTAL PHARMACOLOGY**

Q.P. Code :322164

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss and describe the importance of the following techniques
 - a. One kidney-one clip technique.
 - b. Zinc disc implantation.
 - c. Acetic acid induced writhing.
 - d. Pylorus ligated ulceration.
2. Discuss about the acute and chronic screening methods used for the screening of Anti-diuretic drugs?

II. Short Notes on:

(10 x 6 = 60)

1. Explain one animal models used in the screening of urolithiasis.
2. Discuss the screening methods of anti-diarrhoeal agents.
3. Write short notes on Biotransformation.
4. Write a note on stress induced ulceration in rats.
5. Write a brief note on yeast induced pyrexia.
6. Write a note on carcinogenicity and mutagenicity.
7. Explain Toxicity.
8. Describe one screening procedure for skeletal muscle relaxants.
9. Write one method for screening of drugs useful in grand mal epilepsy.
10. Write a note on Microbiological assay.

M.D.(SIDDHA) DEGREE EXAMINATION
SECOND YEAR
BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM
PAPER III – EXPERIMENTAL PHARMACOLOGY

Q.P. Code :322164

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe the suitable techniques to screen anti-arrhythmic agents.
2. Explain the importance of following in the pharmacological screening of drugs
 - a) Locomotor activity.
 - b) Water maze test.
 - c) Swimming test.
 - d) Traction test.

II. Short Notes on:

(10 x 6 = 60)

1. Describe any two screening procedures for CNS stimulants.
2. Explain two animal models for the screening of anxiolytics.
3. Write short notes on plasma protein binding of drugs.
4. Write a note on two kidney one clip method.
5. Write a note on limitation of animal tests.
6. Describe various routes of drug administration.
7. Explain conditioned avoidance response.
8. Write a note on Eddy's hot plate test.
9. Write one screening procedure for Anti-epileptics.
10. Write a note on charcoal meal test.

[LL 2164]

OCTOBER 2017

Sub. Code: 2164

M.D. (SIDDHA) DEGREE EXAMINATION

SECOND YEAR

BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM

PAPER III – EXPERIMENTAL PHARMACOLOGY

Q.P. Code :322164

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss in detail about different methods to evaluate the drugs used for the treatment of hypertension.
2. Describe in detail about different methods of evaluation of Anti-diabetic drugs.

II. Short Notes on:

(10 x 6 = 60)

1. Special drug delivery system.
2. First pass metabolism.
3. Significance of plasma protein binding.
4. Drug receptors.
5. Tail clip (or) pressure method.
6. Granuloma pouch method.
7. Screening of Anti-diarrhoeal.
8. Cat papillary method.
9. Ehrlich ascites carcinoma method.
10. Limitations of animal test.

[LM 2164]

MAY 2018

Sub. Code: 2164

M.D. (SIDDHA) DEGREE EXAMINATION
SECOND YEAR
BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM
PAPER III – EXPERIMENTAL PHARMACOLOGY

Q.P. Code :322164

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe in detail about different methods of evaluation of drugs used for Peptic ulcer.
2. Explain in detail how the drugs are evaluated in the treatment of bronchial asthma?

II. Short Notes on:

(10 x 6 = 60)

1. Advantages and disadvantages of enteral route.
2. Plasma protein binding.
3. Write any three factors influencing drug absorption.
4. Biostandardisation.
5. Eddy's Hotplate.
6. Experimental pleurisy.
7. Forced swim Test.
8. Alloxan diabetes.
9. Haemostatic study.
10. Actophotometer.

[LN 2164]

OCTOBER 2018

Sub. Code: 2164

M.D. (SIDDHA) DEGREE EXAMINATION

SECOND YEAR

BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM

PAPER III – EXPERIMENTAL PHARMACOLOGY

Q.P. Code :322164

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define the different route of administration and mechanism of action of drugs with example.
2. Describe elaborately about different methods of evaluation of local anaesthetic drugs.

II. Short Notes on:

(10 x 6 = 60)

1. Sublingual route of drug.
2. Biotransformation.
3. Plasma half-life of drug.
4. Write any three factors modify the effects of drugs.
5. Writhing test in rat.
6. Tail suspension test.
7. Pyloric ligation method.
8. Tracheal chain method.
9. Streptozotocin diabetes.
10. Primary screening of drugs.

[LO 2164]

MAY 2019

Sub. Code: 2164

M.D. (SIDDHA) DEGREE EXAMINATION

SECOND YEAR

BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM

PAPER III – EXPERIMENTAL PHARMACOLOGY

Q.P. Code :322164

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss and describe the importance of the following techniques:
 - a) Water maze test.
 - b) DOCA salt induced hypertension.
 - c) Pentylentetrazole induced convulsion.
 - d) Cotton pellet granuloma test.
2. Discuss about the acute, sub acute and chronic toxic studies in drug development.

II. Short Notes on:

(10 x 6 = 60)

1. Explain one animal models used in the screening of anti-depressants.
2. Discuss pylorus ligated ulceration model.
3. Write short notes on Biotransformation.
4. Explain the following terms:
 - a) Tachyphylaxis
 - b) Drug allergy
5. Write a brief note on yeast induced pyrexia.
6. Write a note on carcinogenicity and mutagenicity.
7. Explain streptozotocin induced diabetes.
8. Describe one screening procedure for skeletal muscle relaxants.
9. Write one method for screening of drugs useful in arrhythmia.
10. Write a note on Elevated plus maze test.

[LP 2164]

OCTOBER 2019

Sub. Code: 2164

M.D. (SIDDHA) DEGREE EXAMINATION

SECOND YEAR

BRANCH VI – NANJU NOOLUM MARUTHUVA NEETHI NOOLUM

PAPER III – EXPERIMENTAL PHARMACOLOGY

Q.P. Code :322164

Time: Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe a model to investigate a drug acting as:
 - a) Diuretics.
 - b) Anti-fertility agent.
 - c) Cognitive enhancer.
 - d) Cardiotonic.
2. Discuss in detail about the various drug transport mechanism and factors affecting the drug absorption.

II. Short Notes on:

(10 x 6 = 60)

1. Explain the terms acute, sub-acute and chronic toxicity studies in preclinical research.
2. Write a brief account on adverse drug reactions.
3. Write a short note on acetic acid induced writhing test.
4. Explain one screening procedure for antihypertensive drugs.
5. Write a note on limitation of animal tests.
6. Give a brief note on MPTP induced Parkinsonism.
7. Write a note on drug induced ulceration in rats.
8. Write a note on charcoal meal test.
9. Write a note on spontaneously diabetic rat.
10. Give a brief account on MES seizures.
