

CENTRAL COUNCIL OF INDIAN MEDICINE
NEW DELHI

SYLLABUS FOR SIDDHA MARUTHUVA ARIGNAR (BSMS) COURSE
(as per the Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine)
amendment Regulations, 2016)

SECOND PROFESSIONAL BSMS
GUNAPADAM-MARUNTHAKAVIYAL (PHARAMACEUTICALS) (PAPER-I)

I Pharmacy & Siddha Instrumentations (20 Marks)

II.Siddha Formulations in Siddha Formulary of India (SFI)& Other releted topics (80 Marks)

1. (a) PHARMACY

- Introduction
- Raw drug store (RDS)
- Preparation section
- Prepared medicine store (PMS) as per Theraiyar quotes.

I (b) Rules & Regulation Of Pharmacy (GMP guidelines)

I (c) DISPENSING PHARMACY

- Prescription Writing
- Medical abbreviations
- Labelling
- Packing
- Storage of Medicine
- Dosage Schedule

I (d) SIDDHA INSTRUMENTATIONS:

(A).Karuvikal (Equipments)

(B). Enthiram (Apparatus)

(C)Modern instrumentation

- Disintegrator
- Micro pulveriser
- Pill cutting and making machine
- Tablet compression machine
- Capsule filling machine
- Ointment manufacturing Machine
- Syrup making machine
- Ball mill
- End runner / Edge runner

- Tray Dryer
- Chopping machine
- Mass mixer, Granulator
- Sieve shaker
- Juice Expeller
- Planetary mixer

II.Siddha Formulations In Siddha Formulary of India – SFI & Other Related topics (80 Marks)

1. MARUNTHU : Definition - Types of Medicine

(A) ULMARUNTHUKAL (Internal medicine) -32

Definition for each, Classification with examples, *Ayul kaalam* (Shelf Life periods), Dosage Schedule.

- | | | |
|-------------|---------------|-----------------|
| 1) Surasam | 12) Manappagu | 23) Pathangam |
| 2) Saaru | 13) Rasayanam | 24) Chendhuram |
| 3) Kudineer | 14) Elagam | 25) Parpam |
| 4) Karkam | 15) Ennai | 26) Kattu |
| 5) Utkali | 16) Mathirai | 27) Urukku |
| 6) Adai | 17) Kaduhu | 28) Kalangu |
| 7) Choranam | 18) Pakuvam | 29) Sunnam |
| 8) Pittu | 19) Thenural | 30) Karbam |
| 9) Vadagam | 20) Theeneer | 31) Saththu |
| 10)Vennai | 21) Mezhugu | 32) Gurukulihai |
| 11)Nei | 22) Kulambu | |

I. (B) PURA MARUNTHUKAL (External Medicine) (32)

Definition for each, Classification with examples, *Ayul kalam* (Shelf Life periods).

- | | | | | | | |
|--------------|-----------------|-------------|-------------------|--------------|-------------|-----------|
| 1) kattukal | 2)Patru | 3)Otradam | 4) Poochu | 5)Vedhu | 6)Pottanam | |
| 7)Thokkanam | 8) Pugai | 9) Mai | 10)Podithimirdhal | 11) Kalikkam | 12)Nasiyam | |
| 13)Uthal | 14)Nasikaparaam | 15) Kalimbu | 16)Cheelai | 17)Neer | 18)Varthi | |
| 19)Chuttikai | 20) Salakai | 21)Pasai | 22)Kali | 23)Podi | 24)Murichal | 25)Keeral |
| 26)Karam | 27)Attai vidal | 28)Aruvai | 29)Kombu kattal | 30)Urinchal | 31)Kurithi | |
| Vangal | 32)Peechu | | | | | |

2.ALAVUGAL- (Measurements)

- a) Neetal Alavu
 - b) Niruthal Alavu
 - c) Mugathal Alavu
- Comparison of (a), (b) and (c) with modern metrics and Measurements.

3. PRINCIPLES OF DRUG PREPARATION

- Eaka mooligai prayaogam
- Marana prayogam
- Dravaga prayogam
- Cheyaneer prayogam
- Muppu chunna prayogam

Special study on Muppu

- Definition
- Basic principles of Muppu
- Types of Muppu-Vadha Muppu- Vaithiya Muppu-Yoga Muppu
- Uses of Muppu

4. THOGAI CHARAKUKAL

1. Eru manjal	2. Eru nannari	3. Thiri Kadugu	4. Thiri Saatham
5. Thirikantham	6. Thiri Kaayam	7. Thiri Koobam	8. Thiripathiri
9. Thiri Sukantham	10. Thiripalaa	11. Thiriparuvam	12. Mukkani
13. Thirimanjal	14. Thirimoolam	15. Thirinimbam	16. Panja Saatham
17. Mukkootu Nei	18. Sathur Saatham	19. PanjaAmirtham	20. Aingayam
21. PanjaThiraviyam	22. Panja Moolam	23. Panja Vaasam	24. Atta Varkkam
25. Panjavarakkam	26. Elagupanja Moolam	27. Siru panja moolam	28. Moolatch Sathurvarkkam
29. Ainthennai	30. Panjaakkini Moolam	31. Parimala varkkam	32. Panjamathi
33. Atta Santhanam	34. Attakkayam	35. Atta Moolam	36. Menpodi panjaangam
37. Thirilavangam	38. Mutchiragam	39. Nalangumaa	40. Pathinenmoolam
41. Panjakavyam	42. Aingkoolam	43. Sathursaaram	44. Panjavembu
45. Panjamooli	46. Panjakaaram	47. Panja Kaayam	48. Aararisi
49. Panjaalaikkaram	50. Panja koolam	51. Dhasamoolam	52. Pancha thiraviyam

5. List of formulations as per SFI, Part- I

Sl.No	Class of Formulation	Name of Formulation
1.	KUDINEER	ADATHODAI KUDINEER
		KAPHA JURA KUDINEER
		NILAVEMBU KUDINEER
		NERINJIL KUDINEER
		NOCCIK KUṬINĪR
2.	CHLOORANAM	ASHTA CHOORANAM
		AMUKKARA CHOORANAM
		ELATHY CHOORANAM
		KALADCHI CHOORANAM
		SIVADHAI CHOORANAM
		SEENDHIL CHOORANAM
		ASAI CHOORANAM
		CHUNDAIVATRAL CHOORANAM
THALISADHI CHOORANAM		

Sl.No	Class of Formulation	Name of Formulation
		TRIKADUGU CHOORANAM
		TRIPHALA CHOORANAM
		NILAVAGAI CHOORANAM
		PANCHADEEPAKINI CHOORANAM
		PARANGIPATTAI CHOORANAM
3.	VADAKAM	INJI VADAKAM
		IMPURAL VADAKAM
		THALISADHI VADAKAM
		VAZHAIPOO VADAKAM
4.	VENNAI	KUNGILIYA VENNAI
5.	MANAPPAGU	ADATHODAI MANAPPAGU
		MATHULAI MANAPPAGU
6.	NEY	SEENDHIL NEY
		SENKOTTAI NEY
		THANNEER VITTAN NEY
		THUTHUVALAI NEY
		BRAHMI NEY
		VALLARAI NEY
		VENPOOSANI NEY
7.	RASAYANAM	INJI RASAYANAM
		THIPPILI RASAYANAM
		PRANGIPPATTAI RASAYANAM
8.	ILAKAM	KARISALAI ILAKAM
		KARUNAI ILAKAM
		KESARI ILAKAM
		SARAPUNKA VILVATHI ILAKAM
		THETTRAN KOTTAI ILAKAM
		NELLIKAI ILAKAM
		VENPOOSANI ILAKAM
9.	THAILAM	LEGU SANDHANATHI THAILAM
		LEGU VISAMUSHTI THAILAM
		KALINGADHI THAILAM
		KALARCHI THAILAM
		KEEZHANELLI THAILAM
		KUNTHIRIKKA THAILAM
		KAYYAN THAILAM
		SITTRAMUTTI THAILAM
		SITTRAMUTTI MADAKKU THAILAM
		CIRATTAI THAILAM
		SEERAGA THAILAM
		CHUKKU THAILAM
		NOCCHI THAILAM
		PUNKA THAILAM
		MATHAN THAILAM
		MERUGULLI THAILAM
		MEGANADHA THAILAM
		VATHAKESARI THAILAM
10.	MATHIRAI	LAVANGATHI MATHIRAI
		KAKKANA MATHIRAI
		SAMBIRANI KULIGAI
		SWASAKUDORI MATHIRAI
		NEERKOVAI MATHIRAI
		BRAHMANANDHA BAIRAVAM

Sl.No	Class of Formulation	Name of Formulation
		MURUKKANVIDHAI MATHIRAI
11.	THEENEER	OMA THEENEER SOMBU THEENEER
12.	MEZHUGU	MALAKKUDARA MEZHUGU
13.	KUZHAMBU	KUMATTI KUZHAMBU
14.	PATHANGAM	PARANGIPATTAI PATHANGAM
15.	PARPAM	KUÑKILIYA PARPAM
16.	KARPAM	PAVANAKADUKKAI
17.	PATRU	MUSAMPARAPATRU
18.	POOCHU	PADAI SANKARAN-1 PADAI SANKARAN-2
19.	MAI	ILANEER KUZHAMBU PAZHAMKIRAMBUPAKKUVA VENNAI

Reference Books:-

1. Maruthu Sei Iyalum Kalaiyum. By.Dr. Deva Asirvatham samuel.
2. Formulary of Siddha I & II - Published by Govt. of India.
3. Formulary of Siddha – Published by IMP COPS.
4. Siddha Vaidya Thiruttu – Dr. C.S. Uthamarayan.
5. Gunapadam Mooligai Vagappu by K.S. Murugesu Mudaliyar.
6. Gunapadam Thathu – Jeevam by Dr. R. Thiyagarajan.
7. Thylavarka Surukkam - by Theraiyar.
8. Chihitcha Rathna Deepam – Published Rathna Nayakkar & sons.
9. Quality Control Standards for certain Siddha formulations – Published by central council for Research in Ayurveda and Siddha.
10. Protcol for Drug Testing for ASU Drugs by PLIM.

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SECOND PROFESSIONAL BSMS
GUNAPADAM - MARUNTHAACKKAVIYAL (PHARMACEUTICALS) PAPER II

I. Siddha Formulations in the Gunapadam Thathu Jeevam Text & Siddha Formulary of India – SFI and Related Topics (80 Marks)

II. Drug standardization & Medical geology (20 marks)

- I. (a) *Siddha Formulations in the Gunapadam Thathu Jeevam Text*
(b) *Siddha Formulations in SFI*

Sl.No	CLASS OF FORMULATION	NAME OF FORMULATION	
1.	CHORANAM	MAYIL IRAGAATHI CHORANAM	
2.	RASAYANAM	KANTHAGA RASAYANAM	
3.	TAILAM	KANTHAGA SUDAR TAILAM	
4.		KARAPPAN TAILAM.	
5.		MATHAN TAILAM (PACHAI ENNAI)	
6.		MAYANA TAILAM (MEZHU)	
7.		VIRANA SANJEEVI TAILAM.	
8.		VELLAI ENNAI (POORA ENNAI)	
9.		MATHIRAI	KASTHURI MATHIRAI
10.			KOROSANAI MATHIRAI.
11.	SANTHA SANTHIROTHAYA MATHIRAI.		
12.	PACHAI KARPOORA MATHIRAI.		
13.	BALA SANJEEVI.		
14.	BRAMANANTHA BAIRAVAM.		
15.	VASANTHA KUSUMAGARAM		
16.	VISHNU CHAKKARA MATHIRAI.		
17.	MELUGU	RASA MELUGU.	
18.		RASAGANDHI MELUGU.	
19.		KANTHI MELUGU.	
20.		NAVAUPPU MELUGU	
21.		PANCHA SOOHA MELUGU	
22.		MAHAVEERA MELUGU.	
23.	KULAMBU	AGASTHIYAR KULAMBU.	
24.		JATHI JAMBEERA KULAMBU.	
25.	CENTURAM	AYAKANTHA CENTURAM.	
26.		AYA CENTURAM	
27.		AYAVEERA CENTURAM.	
28.		ANNABEDI CENTURAM.	
29.		IRASA CENTURAM.	
30.		ILINGA CENTURAM - 1	
31.		ILINGA CENTURAM - 2	
32.		ULOKA MANDOORA CENTURAM	
33.		KAADIKARA CENTURAM	

Sl.No	CLASS OF FORMULATION	NAME OF FORMULATION
34.		KAANTHA CENTURAM
35.		GOWRI CHINTHAMANI
36.		CANDA MARUTHA CENTURAM.
37.		THANGA CENTURAM.
38.		THAMBIRA CENTURAM (CHEMBU)
39.		THALAGA CENTURAM.
40.		NAAGA CENTURAM
41.		PADIGA LINGA CENTURAM,
42.		VEDI ANNABEDI CENTURAM.
43.		VELLI CENTURAM
44.	PARPAM	AMAI OTTU PARPAM
45.		KANTHAGA PARPAM.
46.		KARUVANGA PARPAM.
47.		KUNGILIYA PARPAM.
48.		SANGU PARPAM.
49.		SIRUNGI PARPAM (MAAN KOMBU)
50.		SILASATHU PARPAM.
51.		CHEMBU PARPAM.
52.		THANGA PARPAM
53.		THALAGA PARPAM
54.		NANDUKKAL PARPAM
55.		NATHAI PARPAM
56.		NAAGA PARPAM
57.		PANCHA LAVANA PARPAM.
58.		PADIGARA PARPAM
59.		PALAGARAI PARPAM.
60.		PAVALA PARPAM
61.		PERANDA PARPAM - 1
62.		PERANDA PARPAM - 2
63.		MUTHU PARPAM
64.		MUTHUCHIPPI PARPAM
65.		VENGARA PARPAM
66.		VELVANGA PARPAM
67.		VELLI PARPAM
68.	KARUPPU	KASTHURI KARUPPU
69.		SIVANAR AMIRTHAM
70.		THALAGA KARUPPU
71.	KATTU	ILINGA KATTU
72.		POORA KATTU
73.		VELLAI PAADANA KATTU
74.	CHUNNAM	VEDIUPPU CHUNNAM.
75.		VELVANGA CHUNNAM
76.	KARPAM	AYA BIRUNGARAJA KARPAM
77.		AYA SAMBEERA KARPAM
78.		IRUNELLI KARPAM
79.	EXTERNAL / TOPICAL	ILANEER KUZHAMBU.
80.	APPLICATIONS	PAZHA KIRAMBU PAKKUVA VENNAI.
81.		KANKAASA MATHIRAI
82.		AMIRTHA VENNAI (SAVVERA KUZHUMBU)

Sl.No	CLASS OF FORMULATION	NAME OF FORMULATION
83.		KIZHINGAL MELUGU.
84.		MEGHA VIRANA KALIMBU
85.		VANGA VENNAI.
86.		VELLAI MEZHUGU.
87.		PADIGARA NEER
88.		VENKARA PODI

I (c) PATHIYAM & ANUBANAM

PATHIYAM

- Definition
- Pathiyathirku aagum porutkal
- Pathiyathiruku aaga porutkal
- Pathiyathin vagaigal - Itcha pathiyam, kadum pathiyam, Miga kadum pathiyam, Rasa pathiyam, Aya pathiyam and etc.

ANUBANAM (Vehicle) & THUNAI MARUNTHU (Adujvant)

- Definition
- Examples

I (d) ADULTERATION OF SIDDHA DRUGS

- Definition for Adulteration
- Adulteration – Types with Examples
- Reasons of adulteration

II. DRUG STANDARDISATION & MEDICAL GEOLOGY

(a) DRUG STANDARDISATION

- Definition
- Introduction to Raw Drug Standardisation
- Introduction to Drug Standardisation
- Brief about Drugs and Cosmetic Act and Magic remedial Act
- Drug Regulatory bodies (Central and State)
- Introduction to Intellectual Property Rights (IPR)
- **Field visit to any one GMP certified pharmaceutical company and drug testing Lab.**

(b) MEDICAL GEOLOGY:

- Introduction to the Basics of Medical Geochemistry.
- Mineral Identification Basics.
- Brief Geo-chemical & Zoological description of Thathu and Jeeva Porutkal

Reference books:

1. Gunapadam Thathu – Jeevam by Dr. R. Thiyagarajan.
2. Formulary of Siddha I & II - Published by Govt. of India.
3. Siddha Vaidya Thirattu – Dr. C.S. Uthamarayan.
4. <http://www.gc.maricopa.edu/earthsci/imagearchive/index.htm>
5. Aswathanarayana, U. Professor (1994) Trace Substances, Environment and Health.
6. Schauss, Alex (1995): Minerals and Human Health
7. ISM (2001): National Formulary of Unhand Medicine, Ed 1, Part III, pp 59-68, 115-117, Department of Indian Systems of Medicine and Homeopathy, Ministry of health and Family Welfare, Govt .of India, New Delhi.

GUNAPADAM –MARUNTHAAKKAVIYAL- PRACTICALS

Sl.No	Class of Formulation	Name of Formulation
01	KUDINEER	ADATHODAI KUDINEER
02		NILAVEMBU KUDINEER
03	CHORANAM	ELATHY CHOORNAM
04		NILAVAGAI CHOORANAM
05		INDHUPPU CHOORANAM.
06	VADAKAM	THALISATHI VADAKAM
07		INJI VADAKAM
08	VENNAI	KUNGILIYA VENNAI
09	MANAPPAKU	MATHULAI MANAPPAKU
10		ADATHODAI MANAPPAGU
11	NEI	VALLARAI NEI
12	RASAYANAM	INJI RASAYANAM.
13		KANTHAGA RASAYANAM
14	ILAKAM	PANCHADEEPAKINI ILAKAM
16	THAILAM	PINDA THAILAM
16		ANDA THAILAM
17		KEEZHANELLI THAILAM
18		MATHAN THAILAM
19		VELLAI ENNAI (POORA ENNAI)
20		MOOLAKUDORI THAILAM
21		CHITRAMOOLA THAILAM
22	MATHIRAI	SWASAKUDORI MATHIRAI
23		URAI MATHIRAI
24		MURUKKANVIDHAI MATHIRAI
25		SANTHA SANTHIROTHAYA MATHIRAI
26		BRAMANANTHA BAIRAVAM.
27	THEENEER	SOMBU THEENEER
28		OMA THEENEER
29	MEZHUGU	MALAKKUDARA MEZHUGU
30		KANTHI MELUGU.
31	KUZHAMBU	JATHI JAMBEERA KULAMBU.
32	CENTURAM	ANNABEDI CENTURAM.
33		PADIGA LINGA CENTURAM
34	PARPAM	SILASATHU PARPAM.
35		NANDUKKAL PARPAM
36		SANGU PARPAM.
37	KATTU	LINGA KATTU
38	EXTERNAL APPLICATIONS	THALAI VALI PASAI
39		CHANDRA KALA LEBAM
40		VANGA VENNAI.

DISTRIBUTION OF MARKS:

1. One exercise from the above list ----- 60 marks
2. Practical Record & Industrial observation ----- 10 marks
3. Practical aspect Viva voce ----- 30 marks