

**DETAILED SYLLABUS FOR THE POST OF MEDICAL OFFICER (SIDDHA) IN INDIAN SYSTEMS OF MEDICINE**

**CAT.NO 522/2023**

<b>Modules</b>	<b>Marks</b>
<b>1.Siddha Maruthuva Adippadai thathuvangalum varalarum</b>	<b>6</b>
<b>2.Uyir Vedhiyiyal</b>	<b>6</b>
<b>3. Maruthuva Thavara Iyal</b>	<b>6</b>
<b>4. Udal Koorugal</b>	<b>8</b>
<b>5. Udal Thathuvam &amp;Modern Physiology</b>	<b>8</b>
<b>6. Gunapadam Paper-I, Mooligai vaguppu</b>	<b>8</b>
<b>7. Gunapadam Paper-II, Thathu Jeeva Vaguppu</b>	<b>8</b>
<b>8. Noi Naadal</b>	<b>6</b>
<b>9. Noi Anugavithi ozhukkam</b>	<b>6</b>
<b>10.Sattam Sarntha Maruthuvamum Nanju Maruthuvamum</b>	<b>6</b>
<b>11.Maruthuvam</b>	<b>8</b>
<b>12.Varmam, Pura &amp;Sirappu maruthuvam</b>	<b>8</b>
<b>13.Aruvai, Thol Maruthuvam</b>	<b>8</b>
<b>14. Sool, Magalir &amp; Kuzhanthai Maruthuvam</b>	<b>8</b>
<b>TOTAL</b>	<b>100</b>

**MODULE 1. SIDDHA MARUTHUVA ADIPPADAI THATHUVANGALUM VARALAARUM- (6 MARKS)**

**(HISTORY & FUNDAMENTAL PRINCIPLES OF SIDDHA MEDICINE)**

**I. Three primordial, eternal entities and their siddhaanthic theories (Pathi, Pasu, Paasam).**

**(1) Pathi (Almighty),(2) Pasu (Soul), (3) Paasam (Bondages):**

**II. Deekai (Initiation towards the highest goal of life).**

**III. Epistemology (Alavai) - 10 types.**

**IV. Different schools of thought regarding the creation of Universe -**

Relation between macrocosm and microcosm (Andathil Ullathe Pindam).

**V. 96 Fundamental Principles (Thathuvams) and its different concepts i.e.,**

Sivaprakaasa Kattalai - Thiruvaalavai Kattalai - Siddhaanta Kattalai - Vedaantha Kattalai -

Thathuva Deepikai - Yugimuni's concept.

**VI. Seven Physical constituents ( Udal Kattukal ) :**

**VII. Definition and description of the following:-**

1. Attamaa Sithigal

2. Rasavaatham (Alchemy).

**VIII. History of Tamil Nadu including three Tamil Academies & Ancient Religious Traditions**

**of Tamils (Arusamaiyakolgai)**

**IX. History of Siddhars:-**

Agasthiyar - Thirumoolar - Therayar - Yugimuni - Bohar - Sattamuni - Nandhidevar -

Raamadevar - Dhanvanthri - Konganavar - Karuvoorar - Kaalanganadhar - Pulippaani -

Paampaatti Siddhar - Macchamuni - Romarishi - Koorakkar - Idaikaadar - Sundaraanandhar -

Thiruvalluvar - Agappei Siddhar - Kuthambai Siddhar - Sivavaakkir - Azhuganni Siddhar -

Pulathiar.

**X. Attaanga Yogam:-**

## **MODULE 2. UYIR VEDHIYIAL (BIOCHEMISTRY)- (6 MARKS)**

**1. Chemistry of Carbohydrates:**

Functions of Carbohydrates, Classification of Carbohydrates, Classification and biomedical

importance of monosaccharides, Reactions of monosaccharides, Classification and

biomedical importance of disaccharides, Polysaccharides- Classification, composition and function.

## **2. Chemistry of Lipids:**

Functions of Lipids, Classification of Lipids, Classification of fatty acids, Essential fatty acids,

Free radicals and antioxidants, Types and functions of phospholipids, Glycolipids and lipo

proteins, Steroids, Micelles , Names and functions of eicosanoids.

## **3. Chemistry of Proteins :**

Functions of proteins, Classification of proteins based on chemical nature and solubility,

classification of amino acids based on structure, Structure of proteins primary, secondary ,

tertiary and quaternary. Biologically important peptides. Plasma proteins: Types and major

functions, the complement system.

## **5. Purine nucleotides:**

Degradation of purine nucleotides, Gout.

## **6. Metabolism of carbohydrates:**

Glycolysis, TCA cycle, HMP shunt pathway, Glycogenesis, glycogenolysis, and Gluconeogenesis. Glucose homeostasis, Diabetes mellitus.

## **7. Metabolism of proteins:**

Transamination, deamination and urea cycle. Biosynthesis of proteins (Translation).

## **8. Metabolism of Lipids:**

Fatty acid oxidation, Ketone bodies, Ketosis. Biosynthesis of fatty acids, Biosynthesis of

cholesterol, Degradation of cholesterol, Hypercholesterolemia, Metabolism of HDL, Fatty

liver, Obesity.

## **9. Haemoglobin:**

Structure of haemoglobin, Biosynthesis of heme, Degradation of heme. Clinical significance

of Glycosylated Haemoglobin, Jaundice

## **10. Vitamins:**

Fat soluble Vitamins and Water soluble vitamins -food source, RDA, biochemical functions

and deficiency, Manifestations.

## **11. Hormones: Biochemical functions and disorders.**

## **12. Minerals:**

Macro Elements and Micro Elements-food source, RDA, biochemical functions and

deficiency, Manifestations

## **13. Nutrition:**

Calorie value of food stuffs, Basal metabolic rate, Specific dynamic action, Fibre in nutrition,

Balanced diet, protein - Energy malnutrition, Energy requirements.

## **14. Cancer and AIDS:**

Cancer - Etiology and tumour markers. AIDS - Transmission of HIV and Lab Diagnosis.

## **15. Organ function tests:**

Liver function tests, Renal function tests, Thyroid function tests.

## **MODULE 3. MARUTHUVA THAVARAIYAL (MEDICINAL BOTANY AND PHARMACOGNOSY)- (6 MARKS)**

### **Chapter-I:**

Taxonomy of Angiosperms- Natural system of classification (Bentham and Hooker)

Diagnostic vegetative and Reproductive characters, Active principles and Pharmacological

constituents of most used plants of the following families:

- |                   |                    |
|-------------------|--------------------|
| 1. Ranunculaceae  | 9. Combretaceae    |
| 2. Menispermaceae | 10. Myrtaceae      |
| 3. Capparaceae    | 11. Rubiaceae      |
| 4. Malvaceae      | 12. Asteraceae     |
| 5. Rutaceae       | 13. Apocynaceae    |
| 6. Meliaceae      | 14. Asclepiadaceae |
| 7. Fabaceae       | 15. Convolvulaceae |
| 8. Caesalpiaceae  | 16. Solanaceae     |

17. Acanthaceae

18. Lamiaceae

19. Nyctaginaceae

20. Aristolochiaceae

21. Euphorbiaceae

22. Zingiberaceae

23. Poaceae

### **Chapter - II:**

Study of following anatomical structures:

Idealised plant cell structure, cell organelles and cell inclusion

Dicot leaf, stem and root

Monocot leaf, stem and root

### **PHARMACOGNOSY**

#### **Unit-1:**

Study of organized raw drugs based on their morphology:

Roots and Rhizomes

Flowers

Woods

Fruits

Barks and Galls

Seeds

Leaves

Whole plant

#### **Unit -2:**

Study of unorganized raw drugs:

Gums

Resins and types

Fixed oils

#### **Unit - 3**

Phytochemistry (pharmacological actions of the following)

Glycosides-Anthroquinone, Cardiac and Saponins

Alkaloids-Tropane, Quinoline and Indole

Tannins-Hydrolysable and Condensed  
Volatile oils-Obtained from the various plant parts

Pigmentation studies-Chlorophyll, Xanthophyll, Anthocyanin

#### **Unit-4:**

Adulteration of raw drugs & detection, Poisonous plants. Basics of Herbal drug standardization.

## **MODULE 4. UDAL KOORUGAL (ANATOMY) - (8 MARKS)**

### **I. OSTEOLOGY WITH APPLIED ANATOMY**

### **II. ARTHROLOGY WITH APPLIED ANATOMY**

### **III. MYOLOGY WITH APPLIED ANATOMY**

### **FOSSAE AND TRIANGLES\***

### **IV. ANGIOLOGY**

(Origin, termination, course and branches/tributaries have to be studied)

### **ARTERIAL SYSTEM**

### **VENOUS SYSTEM**

### **V. LYMPHATICS**

### **VI. NERVOUS SYSTEM**

### **VII. SPECIAL SENSES**

### **VIII. RESPIRATORY SYSTEM**

### **IX. CARDIOVASCULAR SYSTEM**

### **X. DIGESTIVE SYSTEM**

### **XI. LYMPHOID ORGANS\***

### **XII. UROGENITAL SYSTEM**

### **XII. ENDOCRINOLOGY**

## **MODULE 5. UDAL THATHUVAM (SIDDHA PHYSIOLOGY)& MODERN PHYSIOLOGY- ( 8MARKS)**

**1. Five elements and its medical aspects.** Creation of five elements – properties – five

fold combination ( panchikaranam) – Manifestation of five elements in our body

(panchabootha koorugal (or) Purakaruvikal) – Relation between five elements & six

tastes – Five elements and three humours – five elements and seven physical constituents.

**2. Development of Embryo according to Siddhars' concepts.** Role of five elements

during fertilization, and intrauterine life – Different stages of foetal growth – sex determination & Determination of life span according to Siddhar's concept.

**3. Five sheaths (Kosangal)**

Physical sheath (Annamaya kosam) – Respiratory sheath

(Piranamaya kosam) – Mental sheath (Manomaya kosam) – Intellectual sheath  
(vignanamaya kosam) – Blissful sheath (Ananthamaya kosam)

**4. Physical sheath- (Anna maya kosam)**

**5. Respiratory sheath (Prana maya kosam)**

Functions of pranana – Regulation of breathing – Pranayamathathuvam.

**6. Mental sheath(Mano maya kosam)**

**7. Fourteen Natural Urges (Vehangal)**

**8. Longevity of life** – According to Siddha principles – Concentration of six  
Psychophysical centres (Aatharas) – Stimulation of Adharas by meditation &  
Yoga.

**9. Intellectual sheath:-(Vingnana maya kosam)**

**10. Blissful sheath (Anantha maya kosam)** Self realization (Arivu) –  
achievement

(Siddham) and its details

**MODERN PHYSIOLOGY**

**I. General Physiology**

1. Cell - organelles - Transport across cell membrane - Trans membrane electrical potential.
2. Homeostasis - Positive and negative feedback - Acid base balance.

**II. Blood and Body fluids**

**III. Muscle Physiology**

**IV. Renal physiology and Excretion.**

**V. Endocrinology**

**VI. Reproductive systems**

**VII. Digestive system**

**VIII. Cardio vascular system**

**IX. Respiratory and Environmental Physiology**

**X. Nervous system**

**XI. Special senses.**

**MODULE 6. GUNAPADAM-PAPER I (MOOLIGAI) (MATERIAMEDICA -  
PLANT KINGDOM)- (8 MARKS)**

1) Introduction :

i. Properties of drug

ii. Taste, character, potency, post absorptive tastes (Vibagam)

iii. Specific action (prabhagam)

2) Study about therapeutic actions with few examples.

3) Detailed study about the following herbs including their Synonyms, Botanical names, various

names in regional languages, origin, identification, availability, parts used, description about

their properties, therapeutic actions, indications, doses, home remedies and specific formulae

related to particular herbs.

- |   |  |
|---|--|
| 1. Agatti - <i>Sesbania grandiflora</i>               | 19. Impural - <i>Oldenlandia umbellata</i>             |
| 2. Asogu - <i>Saraca asoca</i>                        | 20. Lavangam - <i>Syzygium aromaticum</i>              |
| 3. Athimathuram - <i>Glycyrrhiza glabra</i>           | 21. Echchura mooli - <i>Aristolochia indica</i>        |
| 4. Athividayam - <i>Aconitum heterophyllum</i>        | 22. Uttamani - <i>Pergularia daemia</i>                |
| 5. Atti - <i>Ficus recemosa</i>                       | 23. Umaththai - <i>Datura metal</i>                    |
| 6. Abini -Kasa Kasa - <i>Papaver somniferum</i>       | 24. Etti - <i>Strychnos nux-vomica</i>                 |
| 7. Amukkurakkizhangu - <i>Withania somnifera</i>      | 25. Elumichai - <i>Citrus lemon</i>                    |
| 8. Arathai - <i>Alpinia galanga</i>                   | 26. Elam - <i>Elettaria cardamomum</i>                 |
| 9. Avuri - <i>Indigofera tinctoria</i>                | 27. Omam - <i>Carum copticum</i>                       |
| 10. Arugu - <i>Cynodon dactylon</i>                   | 28. Kurosani omam - <i>Hyoscyamus niger</i>            |
| 11. Akasagarudan - <i>Corallocarpus epigaeus</i>      | 29. Oritazhtamarai - <i>Ionidium suffruticosum</i>     |
| 12. Adathodai - <i>Justicia adatoda</i>               | 30. Orilai tamarai - <i>Nervilia aragoana</i>          |
| 13. Adutheendapalai - <i>Aristolochia bracteolata</i> | 31. Kanja - <i>Cannabis sativa</i>                     |
| 14. Attuthumatti - <i>Citrullus colocynthis</i>       | 32. Kadalazhinjil - <i>Salacia reticulata</i>          |
| 15. Iruvi - <i>Dryopteris felixmas</i>                | 33. Kadugu rokani - <i>Picrorhiza scrophulariflora</i> |
| 16. Inji - <i>Zingiber officinale</i>                 | 34. Kandangkattari - <i>Solanum surattense</i>         |
| 17. Indu - <i>Mimosa rubicaulis</i>                   | 35. Kanduparangi - <i>Clerodendron serratum</i>        |
| 18. Iththi - <i>Ficus microcarpa</i>                  |  |

36. Kasthuri manjal - *Curcuma aromatica*
37. Karisalankanni - *Eclipta prostrata*
38. Karpuravalli - *Aniso chilus carnosus*
39. Karkadaga singhi - *Rhus succedanea*
40. Kazharchi kodi - *Caesalpinia bonduc*
41. Kodikalli - *Sarcosemma brevistigma*
42. Shadhurakalli - *Euphorpia antiquorum*
43. Katrazhai - *Aloe barbadensis*
44. Kanchori - *Tragiainvolucrata*
45. Karpokarisi - *Psoralea corylifolia*
46. Kitchilikizhangu - *Curcuma zeodaria*
47. Kizhanelli - *Phylanthus amarus*
48. Kungiliam - *Shorea robusta*
49. Kungumappoo - *Crocus sativus*
50. Kudasapalai - *Holarrhena pubescens*
51. Kunthrikkam - *Boswellia serrata*
52. Kuppeimeni - *Acalypha indica*
53. Kuruver - *Vetiveria zizanioides*
54. Kurinjan - *Gymnema sylvestre*
55. Kodiveli - *Glycosmis arborea*
56. Kollu - *Macrotyloma uniflorum*
57. Kottam - *Costus speciosus*
58. Korai - *Cyperus rotandus*
59. Jadamanji - *Nardostachys grandiflora*
60. Chathakuppai - *Anethum graveolens*
61. Chandanam - *Santalum album*
62. Nattu jadhikai - *Myristica fragrans*
63. Shambrani - *Styrax benzoin*
64. Sivathai - *Operculina turpethum*
65. Shivanar vembu - *Indigofera aspalathoides*
66. Chirunagapu - *Mesua nagassarium*
67. Chitramutti - *Pavonia zeylanica*
68. Sindil - *Tinospora cordifolia*
69. Chirakam - *Cuminum cyminum*
70. Karunchirakam - *Nigella sativa*
71. Chukku - *Zingiber officinale*
72. Cheruppadi - *Mollugo lotoides*
73. Cheviyam - *Piper nigrum*
74. Cherankottai - *Semecarpus anacardium*
75. Thannirvittan kizhangu - *Asparagus racemosus*
76. Thalisa-paththiri - *Abies spectabilis*
77. Thantri - *Terminalia bellirica*
78. Thippili - *Piper longum*
79. Thippiliver - *Piper longum*
80. Tutthi - *Abutilon indicum*
81. Thulasi - *Ocimum sanctum*
82. Thuthuvalai - *Solanum trilobatum*
83. Devadaru - *Cedrus deodara*
84. Thettran - *Strychnos potatorum*

85. Nancharuppan - *Tylophora indica*
86. Naththaichuri - *Spermacoce hispida*
87. Nannari - *Hemidesmus indicus*
88. Nabi - *Aconitum napellus*
89. Nayuruvi - *Achyranthes aspera*
90. Naval - *Syzygium cumini*
91. Nilavembu - *Andrographis paniculate*
92. Nila varai - *Cassia senna*
93. Neeradimuthu - *Hydnocarpus laurifolia*
94. Nirmulli - *Hygrophila auriculate*
95. Nerunjil - *Tribulus terrestris*
96. Nelli - *Phyllanthus emblica*
97. Nervalam - *Croton tiglium*
98. Notchi - *Vitex negundo*
99. Palasu - *Butea monosperma*
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100. Parangippattai - *Smilax china*
101. Parppatakam - *Hedyotis coryambose*
102. Vetpalai - *Wrightia tinctorial*
103. Pitharoghani - *Coptis teeta*
104. Pirandai - *Cissus quadrangularis*
105. Chirupelai - *Aerva lanata*
106. Pungu - *Pongamia pinnata*
107. Ponaikali - *Mucuna pruriens*
108. Perungayam - *Ferula asafoetida*
109. Ponnanganni - *Alternanthera sessilis*
110. Manjal - *Curcuma longa*
111. Mara manjal - *Coscinium fenestratum*
112. Manjitti - *Rubia cordifolia*
113. Maruthu - *Terminalia arjuna*
114. Masikkai - *Quercus infectoria*
115. Milagu - *Piper nigrum*
116. Val milagu - *Piper cubeba*
117. Mudakkattan - *Cardiospermum helicacabum*
118. Mukkirattai - *Boerhavia diffusa*
119. Vasambu - *Acorus calamus*
120. Vallarai - *Centella asiatica*
121. Vadhanarayan - *Delonix elata*

- 122. Vaividangum - Embelia ribes
- 123. Valuzhuvai - Celestrus paniculatus
- 124. Vilvam - Aegle marmeoles
- 125. Vilamichamver - Plectranthus vettiveroides
- 126. Vishnukiranthi - Evolvulus alsinoides
- 127. Vellulli - Allium sativum
- 128. Vetrilai - Piper betle
- 129. Vembu - Azadirachta indica

**MODULE 7. GUNAPAADAM -PAPER II (MATERIAMEDICA - THATHU AND JEEVAM)- (8 MARKS)**

**130. (METALS, MINERALS AND ANIMAL KINGDOM)**

**131. INTRODUCTION**

- 132. Classification of metals & minerals
- 133. Instruments used for medicine preparation, description about specific techniques,
- 134. including the special technique of drug preparation.
- 135. Acid distillation formulae.
- 136. Converting ancient measurements into new metric units.
- 137. Internal applications - 32, External Applications-32, Definition, examples & their life span
- 138. How to form a medicine production unit
- 139. Classification of combustion (Spudam)
- 140. Study of friendly drugs (Synergetic) and antagonistic drugs.
- 141. Classification of drugs based on five elements

**142. I.Ulogangal - Metals**

**143. II. Pancha Sootham - Mercury & its ores**

**144. III. Pashanangal - Metal Salts**

**145. IV. Karasaram - Salts**

**146. V. Navamanigal - Gems**

- 147. 1. Pavazham Coral
- 148. 2. Muthu Pearl

149. Pavazham & Muthu to be studied in detail,
- 150. VI. Uparasam - Minerals (Natural Substances)**
- 151. JEEVAM -MATERIA MEDICA (ANIMAL KINGDOM)**
- OTHER RELATED TOPICS**
- 152. I PATHIYAM& ANUBANAM**
- 153. II ADULTERATION OF SIDDHA DRUGS**
- 154. III.DRUG STANDARDISATION & MEDICAL GEOLOGY**
155. (a) DRUG STANDARDISATION
156. Definition
157. Introduction to Raw Drug Standardisation
158. Introduction to Drug Standardisation
159. Brief about Drugs and Cosmetic Act and Magic remedial Act
160. Drug Regulatory bodies (Central and State)
161. Introduction to Intellectual Property Rights (IPR)
- 162. IV. Pharmacy & Siddha Instrumentations**
163. 1. (a) PHARMACY
164. Introduction
165. Raw drug store (RDS)
166. Preparation section
167. Prepared medicine store (PMS) as per Theraiyar quotes.
168. I (b) Rules & Regulation Of Pharmacy (GMP guidelines)
169. I (c) DISPENSING PHARMACY
170. Prescription Writing
171. Medical abbreviations
172. Labelling
173. Packing
174. Storage of Medicine
175. Dosage Schedule
- 176. VI. PRINCIPLES OF DRUG PREPARATION**
177. Eaka mooligai prayaogam
178. Marana prayogam

179. Dravaga prayogam
180. Cheyaneer prayogam
181. Muppu chunna prayogam
182. Special study on Muppu
183. Definition
184. Basic principles of Muppu
185. Types of Muppu-Vadha Muppu- Vaithiya Muppu-Yoga Muppu
186. Uses of Muppu.

## **MODULE 8 .NOI NAADAL (SIDDHA PATHOLOGY) - (6 MARKS)**

### **1. Introduction to Siddha Pathology**

187. 1.1 Definition of Noi and Noi Naadal
188. 1.2 Importance of Noi Naadal
189. 1.3 Etiology of Diseases as per Siddha system.
190. 1.4 Maruthuvanin Ilakkanam according to Siddhars
191. 1.5 Noi intri vazha Kaayakalpam- mani manthira avizhtham
- 192. 2. Inter-relations between five elements, six tastes and three humours - abnormalities during**
- 193. Derangements.**
- 194. 3. Mukkutra iyal (Vatham - Pitham - Kapham)**
- 195. 4. Thega ilakkanam correlated with diseases**
- 196. 5. Naadi:**
197. 5.1 Definition - locations
198. 5.2 Vatha Naadi, Pitha Naadi, Kapha Naadi, ratio of Naadi, Conjoined Naadi
199. 5.3 Dhasa Naadigal-Pathways-Relationship between dasanadi and dasavayu.
200. 5.4 Pulse variations according to seasons
201. 5.5 Preponderant period of Vatha, Pitha & Kapha Naadi - conditions responsible for irregular

202. pulse rhythm – prognosis of a disease based on Naadi.
203. 5.6 Bootha naadi and Pancha Bootha Naadi
204. 5.7 Guru Naadi and its abnormalities
205. 5.8 Abnormal findings of malpractice of Saram
206. 5.9 Amirthanilai
207. 5.10 Diagnosis of pregnancy and infertility through Naadi in various concepts
- 208. 6. Asaathiya, Marana Naadikal and Kurigunangal (Fatal signs & symptoms)**
- 209. 7. Ennvagai Thervukal**
- 210. 7.9.1 Neerkkuri: (Urine general examination) - Alavu (Quantity), Niram (colour), Manam (odour), Nurai (froth), Edai (Consistency/Density) - Enjal (Deposits)**
212. 7.9.2 Neikkuri : The different changes in the oil dropped on the urine to be observed
213. 7.9.3 Diagnosis of diseases, curable and incurable condition through Ennvagai Thervukal
- 214. 8. Special Diagnostic Methods in Siddha System**
215. 8.1 Manikkadai Nool (Wrist circumetric findings)
216. 8.2 Thoothuvan Ilakkanam
217. 8.3 Maruthuva Jothidaviyal -Concepts of jothidam in diagnosis
218. 8.4 Pancha patchi sasthanam - Concepts of Pancha patchi sasthanam in diagnosis
- 219. 9. Seven physical constitutions (Udal thathukkal)**
220. formation of udal thathukal, ubha thathukal and Malangal (feaces, Urine & sweat increased &
221. decreased features) -Uyir anal- kukki anal
222. **10. Digestive fire (Udal thee)** -Geographical Classifications & Seasonal variations (Nilamum
223. pozhuthum) – Appropriate time for medications.
- 224. 11. Primary causes of various diseases according to Therayar.**
- 225. 12. Worms and infectious diseases (Ottu noigal)**

## **MODULE 9.NOI ANUGAVITHI OZHUKKAM- (6 MARKS)**

### **226. (HYGIENE AND COMMUNITY MEDICINE INCLUDING NATIONAL HEALTH POLICIES AND STATISTICS)**

#### **CHAPTER - 1**

227. **Introduction to preventive and social medicine**, concept of man and society, aim and scope of preventive and social medicine, relations between economic factors and environment in health and disease, The ways to lead a disease free life as said by siddhar Theraiyar

#### **CHAPTER - 2**

228. **The five landscapes**- description and occurrence of diseases

#### **CHAPTER - 3**

229. **Ancient town planning** - modern town planning

#### **CHAPTER - 4**

230. **Industries** - occupational diseases and its preventions - occupation hazards - occupation classifications

#### **CHAPTER - 5**

231. **Oor thooimai** - waste management - Excreta disposal - modern sewage treatment and other methods of sewage disposals

#### **CHAPTER -6**

232. **Modern house and vaasthu**, Specifications of Siddha Hospital according to Therayar Tailavarga Surukkam

#### **CHAPTER - 7**

233. **Disposal of human corpses**, History and types, Electric crematorium and related regulations, Organdonation

## **CHAPTER - 8**

- 234. Seasons (Perumpozhuthu, Sirupozhuthu) :**

## **CHAPTER - 9**

- 235. Healthy Environment**-causes and impact of climate change of health- preventive measures to combat climate change- Malé declaration and other international Conventions on Climate Change- “Day Zero”- Basics of Bio-climatology, Organic Farming, Ethical consumption and Conservation of natural resources

## **CHAPTER - 10**

- 236. Water - uses - sources - pollution and its related diseases, Purification and distribution. Watertreatment methods**

## **CHAPTER - 11**

- 237. Neruppu (or) thee** - Atmospheric temperature - Effects of heat stress - Effects of cold stress -Preventive measures of global warming - humidity, Fire safety, Mock drill and types of fire extinguishers

## **CHAPTER - 12**

- 238. Air pollution** - Health aspects, Prevention and control, ventilation - Types, Lighting, Pugai - types Good and adverse reaction, Control of air pollution in hospitals like fumigation, preventive aspects of traditional fumigation methods (Agil, Santhanam, Devadaru, Sambirani, Karpuram etc.)

## **CHAPTER - 13**

- 239. Noise -noise pollution** - Effects and control

## **CHAPTER - 14**

- 240. Good habits** - Personal hygiene (oil bath etc.) - Dressing - gemstones and their medicinal effects. Pancha Karpam, Nalungu maa and Diseases, Bio Cleansing and Detoxification procedures in Siddha Medicine

## **CHAPTER - 15**

241. **Food - Six tastes** - Three types of food - Toxicity - Adulteration - Food borne diseases - Prevention and control - Food standards- Food Digestion time

## **CHAPTER - 16**

242. **Drinks** - Properties of hot water linked with utensils - fruit juices

## **CHAPTER - 17**

243. **Uses of beetle leaf and nut**, over usage of areca nut, Tobacco control,

## **CHAPTER - 18**

244. **Rest and sleep** - Types of bed - Sleeplessness

## **CHAPTER - 19**

245. **Nutritious and balanced diet** - Role of fibers, cereals, vegetables - Greens - fruits - animal proteins - fish - birds - pickles etc. - Diseases - Thrithoda samaporulgal - Nutritional problems in public health

## **CHAPTER - 20**

246. **Principles of Diet regimen (Patthiyam)**, Daily diet regimen for Vali (Vatha), Azhal (Pitha) and Iyam(Kapham) body constitutions, Diet regimen (Patthiyam and Apatthiyam) for Oil bath, Purgation, Piles etc.

247. Antidote for drug and diet (Patthiyam) adverse reactions, Food Serving procedures - types of vessels and their effect on food preparation.

## **248. CHAPTER - 21**

**Communicable diseases: Causes - Symptoms - Prevention**

## **CHAPTER - 22**

249. **Primary Health Care, Maternity and Child Health Services, Immunization of children, Control of communicable diseases, Nutritional disorders, Health checkup of school children, National & Regional health programmes**

## **CHAPTER - 23**

### **250. Siddha Lifestyle Medicine**

251. Definition of Life style diseases, Evidence based behavioral interventions to treat and manage chronic life style diseases, Health and Life style Medicine interventions, Life style counseling, Mental Health and adapting Thirumular Attanga Yogam

## **CHAPTER - 24**

252. **Siddha Primordial preventions of diseases-** Definition and importance of primordial preventions - Levels of prevention - Primordial, primary, secondary and tertiary level, Siddha concept of prophylaxis - immunology and personnel hygiene - Vaccination & Immunization Schedule

## **CHAPTER - 25**

### **253. Siddha Culinary Medicine**

254. Introduction - Relation between diet and health life - Siddha's concept - Preventive care through culinary medicine - Siddha cutlery; Ancient and Modern perspective, do's and don'ts - Siddha diet for controlling specific diseases (e.g: Diabetes, Hypertension, Mother and Child Health) - Longevity through diet - High energy Siddha diet - Home gardening, Techniques for building a health soil - Siddha healthy cookery

## **CHAPTER - 26**

255. Principles of hospital management, Clinical Establishment act, Medical records Maintenance, Hospital Acquired Infection Control and Preventive methods, Bio Medical Waste Management - Types and Disposal management

## **MODULE 10. SATTAM SARNTHA MARUTHUVAMUM NANJU MARUTHUVAMUM - (6 MARKS)**

### **256. (FORENSIC MEDICINE AND TOXICOLOGY)**

- 257. Section 1. Sattam Sarntha Maruthuvam (Forensic Medicine)**

- 258. 1) Introduction :**

- 259. **2) Introduction to Medical Law and Ethics:**
- 260. **3) Identity :**
- 261. **4) Medico legal Autopsy :**
- 262. **5) Death and Its Causes :**
- 263. **6) Post-mortem Changes :**
- 264. **7) Asphyxia :**
- 265. **8) Wounds and classification:**
- 266. **9) Sexual offences:**
- 267. **10) Impotence and Sterility, Sterilization, Artificial Insemination:**
- 268. **11) Virginity :**
- 269. **12) Pregnancy :**
- 270. **13) Delivery :**
- 271. **14) Abortion :**
- 272. **15) Infanticide :**
- 273. **16) Burns and Scalds :**
- 274. **17) Death from Lightning, Electricity, Hot & Cold:**
- 275. **18) Starvation :**
- 276. **19) Forensic Psychiatry :**
- 277. **20) Laws regulating Medical practice in India**
- 278. Acts of Medico-Legal Importance in India
- 279. Important provisions of Constitution of India- Important provisions of Indian Evidence Act- The National Medical Commission Act, 2019-Indian Medicine Central Council Act, 1970 -Drugs and cosmetics Act 1940 -Drugs and magic remedies (objectionable) advertisements Act 1954-Drugs control Act 1950
- 280. **21) Important aspects of regulatory compliance for a medical practitioner**
- 281. State Boards/Councils acts for Medical Registration
- 282. State/central regulations on professional conduct and etiquette
- 283. Procedures for obtaining License for patented drug (State/central regulations)
- 284. Clinical Establishments (Registration and Regulation) Act, 2010

285. Consumer protection Act 1986
286. Laws regulating Emergency medical care given by AYUSH medical Practitioner
287. Rights and privileges of AYUSH medical Practitioner
- 288. Section 2. NANJU MARUTHUVAM (TOXICOLOGY)**
- 289. 1 Introduction**
- 290. 2 Corrosive poisons (Acids strong alkalis)**
- 291. 3 Irritant Poisons**
- 292. 4. Organic Irritant Poisons:**
- 293. 5. Systemic Poisons**
- 294. 6 Food Poisonings and Poisonous Foods**
- 295. 7. Drug Dependence**
296. Definition-Causes-Types of Drug Dependence-Treatment Protocol- Investigations of drug abused deaths.
- 297. 8. House hold and Miscellaneous Poisons**
298. Analgesics, Anti-pyretics, Kerosene, Camphor, Ant powder-Match Box-Rat Poison

## **MODULE 11. MARUTHUVAM (MEDICINE) - (8 MARKS)**

- 299. Study of following disease with clinical demonstration, their various names, Definition, causes, premonitory signs, signs & symptoms, description about the humoural disorders, pulse reading , complications, Associated disease, fatal signs, Line of treatment, prognosis, specific or special medicines, regimen and diet. Necessary modern scientific correlations shall also be incorporated as and when required.**
- 300. 1. Kural kammal (Hoarseness of voice)**
- 301. 2. Mookkadaippu (Sinusitis and Nasal block)**
- 302. 3. Irumal noi (Cough)**
- 303. 4. Eraippu noi (Bronchial asthma)**
- 304. 5. Elaippu noi (Tuberculosis)**

305. 6. Kuruthiazhal noi (Bleeding disorders and abnormalities of blood pressure)
306. 7. Thamaraga noi (pertaining with heart diseases)
307. 8. Veluppu noi (Anaemia)
308. 9. Oodhal noi (Dropsy)
309. 10. Ulaimanthai (Acute / chronic enteritis)
310. 11. Suvayinmai (Disorder of tastes)
311. 12. Seriyamai (Indigestion)
312. 13. Neervetkai (Polydipsia)
313. 14. Vikkal (Hiccup)
314. 15. Vanthi (Vomitting)
315. 16. Mantham (Dyspepsia)
316. 17. Gunmam (Pain abdomen)
317. 18. Manneeral noi (Diseases of spleen)
318. 19. Kalleeral noi (Diseases of liver)
319. 20. Manjal noi (Jaundice)
320. 21. Peruvayiru (Abdominal distension)
321. 22. Kudalpidippu (Abdominal colic)
322. 23. Perunkalichal noi (Diarrhoea)
323. 24. Ninakalichal noi (Amoebic dysentery)
324. 25. Kaduppu kalichal noi (Bacillary dysentery)
325. 26. Oozhi noi (Cholera)
326. 27. Soolai (Pricking pain of varied aetiology)
327. 28. Siruneer noikal
328. 28 (I) Neerinai arukkal noikal (Conditions of reduced urinary output)

329. a) Kalladaippu noi (Renal calculi)
330. b) Neeradaippu noi (Retention of urine)
331. c) Neerkattu (Anuria)
332. d) Sottu neer (Incontinence of urine)
333. e) Neersurukku (Oliguria)
334. f) Vellai noi (Urethritis/ inflammation of the uro-genital organs)
335. 28 (II) Neerina perukkal noikal (Conditions of increased urinary output)
336. a) Athimoothiram (Polyuria)
337. b) Neerizhivu (Diabetes mellitus)
338. c) Thelineer (Diabetes insipidus)
339. d) Venneer (Spermatorrhoea)
340. 29. Keel Vayu (Arthritis)
341. 30. Suram - 64 (Fever - 64 types)
342. 31. Mukkutra noi (Delirium)
343. 32. Ammai noi (Viral infections)
344. 33. Vatha noi (Rheumatic diseases and other neurological disorders) & Pakkavatham (Hemiplegia)
345. 34. Pitha noi (Pitha diseases)
346. 35. Iya noi (Kapha diseases)

**MODULE 12.VARMAM, PURAMARUTHUVAM AND SIRAPPUMARUTHUVAM-**

**(8 MARKS)**

**347. (Varmam Therapy, External Therapy and Special Medicine)**

**348. 1. KAYAKALPAM (Juvenilization Therapy)**

**349. 2. VARMAM:**

350. 2.1. Definition - Description about the importance of Varmam - why it is called as Unique feature of Siddha system : - Basic Philosophies related to the formation of Varma points - classification based on three humours - based on anatomical locations - based on signs & symptoms - special & particular physical manipulation techniques & massage pertaining to Varma therapy - pulse diagnosis of varma patients - Important medicines used in varma therapy - Specific food items prescribed for the patients.

351. **2.2. Detailed study about Paduvarmam (12) & Thodu varmam (96) :- (it includes location - signs & symptoms - necessary manipulation techniques)**

**352. 2.3. Varma marunthugal (Varama therapeutics)**

**353. Introduction - Definition - Types - Treatment of the following diseases.**

**354. 2) Paithiyam noi - 18 types**

355. 3)a) Kirigai noi

356. b) Unmatham noi

357. c) Brammai noi

358. d) Matha noi

359. e) Mathathiyam noi

360. f) Soothika vatham

361. g) Moorchai - Apasmaram - mayakkam.

**362. 4) Seizure disorders**

363. a) Valippu noi

364. b) Kakai Valippu noi

- 365. 5. PURA MARUTHUVAM (External Therapy) - 32 types**
- 366. 6. BONE AND JOINT DISEASES:**
- 367. 6.1. Injuries to bones :**Fracture - varieties - X-ray findings - complications - indications for surgical treatment - fracture of childhood - reduction procedures with splints - POP and modern techniques - practical training.
- 368. 6.2. Varmam therapeutics for Odivu/Murivu**
- 369. 6.3. Diseases of bones:-**
- 370. 6.4. Injury to Joints:** Dislocation of shoulder joint, Jaw etc.
- 371. 6.5. Diseases of Joints:**
- 372. 6.6. Injuries to muscles and tendons**
- 373. 6.7. Deformities -Scoliosis, kyphosis, cubitus valgus, Dupuytren's contracture, Coxa vara, Genuvalgum, flat foot.**
- 374. 6.8. Injury to vertebrae - complications**
- 375. 6.8 Skull fracture**

## **MODULE 13.ARUVAI, THOL MARUTHUVAM- (8 MARKS)**

- 376. (SURGERY INCLUDING DENTISTRY AND DERMATOLOGY)**
- 377. 1. ARUVAI MARUTHUVAM (GENERAL SURGERY)**
- 378. 1.1. Literary evidences for the antiquity of surgical practice in Siddha medicine**
- 379. 1.2. Classification on the practice of treatment. Divine method (Vinnavarurai) - Rational method(Manidarurai) - Surgical method (Asurar urai) - (Aruvai, Agni, Karam and 25 sub divisions).**
- 380. 1.3. Study on Aruvai (Surgical excision)- Keeral (Incision)- Kuruthi vungal (Blood letting)- Attaival (Leech therapy)-**

**Salagai(Probing)- Varthi (Medicated wick)- Oodhal (Blowing)-  
Peechu -(enema/ douch) -Urinchal(Sucking)--  
Kattudhal(bandaging)- Chuttigai (cauterization)-Vedhu(Steam  
therapy)- Pugai (Fumigation)- Karam (caustic applications)**

**381. 1.4. General principles of surgery - Pre and post operative  
care - its management.**

**382. 1.5. Study of causes, clinical features, classification,  
diagnosis, treatment (medical & surgical) with scientific  
correlations - clinical examination and investigations for the  
following diseases.**

**383. 1.1.1. Veekam - (Inflammation)**

**384. 1.1.2. Punkal - (Ulcers)**

**385. 1.1.3. Kattigal- (Tumours)**

**386. 1.1.4. Silaippun- (Sinus ulcers & its treatment with  
karanool)**

**387. 1.1.5. Moolanoikal- (Ano-rectal diseases)**

**388. 1.1.6. Arpaviranam -(koppulam - mugapparu - Thavalaichori  
- Akkul koppulam- Akkul katti -Akkul nilapoosani katti - Akkul  
erichal katti - Putru vanmegam-Aani - Naga chutru -**

**389. Setrupun - Maru - Attathar kopulam - Varagu koppulam)**

**390. 1.1.7. Pavuthiram - Fistula-in-ano**

**391. 1.1.8. Mega kattikal - Diabetic skin lesions, STD**

**392. 1.1.9. Yanaikkal - Filariasis**

**393. 1.1.10. Kandamalai - Cervical adenitis**

**394. 1.1.11. Nagil katti - Benign & malignant tumours of the  
breast**

**395. 1.1.12. Vithai noi - Diseases of scrotum**

**396. 1.1.13. Kiranthi noi - Chronic ulcers**

**397. 1.1.14. Kalladaippu - Renal calculi**

398. 1.1.15. Aankuri noigal - Diseases of the male genitalia.
399. 1.6. Naakku noigal (Diseases of the tongue) - Ulnakku noigal (Diseases of the uvula).

**1. KAN, KATHU, MOOKKU, THONDAI MARUTHUVAM**

400. 2.1. KAN MARUTHUVAM (Eye diseases & Management)
401. 2.1.1 Definition of normal healthy eye
402. 2.1.2 Names of 96 eye diseases according to “Agasthiyar nayana vithi”
403. 2.1.3 Prophylactic measures for healthy vision
404. 2.1.4 Causes of eye diseases
405. 2.1.5 Classification of eye diseases according to Agasthiyar and Nagamuni nayana vithi - Including their names, signs & symptoms, surgical treatment techniques and medicines
406. 2.1.6 Surgical treatment for Pitha kasam
407. 2.1.7 Suttigai or Ratchai treatment for Padalam
408. 2.1.8 Surgical treatment for Karunagappadalam
409. 2.1.9 Ratchai treatment for Ezhuchinoi
410. 2.1.10 Surgical treatment for Mudamayir
411. 2.1.11 Medicines commonly used for Eye diseases:
- |                                    |                                     |
|------------------------------------|-------------------------------------|
| 412. a. Padalathi mathirai         | 417. f. Narikelanjanam              |
| 413. b. Kankasa mathirai           | 418. g. Pazha kirambu pakuva vennai |
| 414. c. Matcha Rethinadhi mathirai | 419. h. Kandu Parpam                |
| 415. d. Ilaneer kuzhambu           | 420. i. Anda neer                   |
| 416. e. Chandrodhaya mathirai      | 421. j. Kan thailam                 |
422. 2.1.12 Comparison with modern diagnosis:

423. a. Suzhal vanderithal - Vitreous opacities
424. b. Naga padalam - Pterygium
425. c. Mayir puzhuvettu - Ulcerative blepharitis
426. d. Amaram - Ophthalmia neonatorum
427. e. Kuvalai vippuruthi - Dacryocystitis
428. f. Vellezhuthu - Presbyopia
429. g. Thurmamisa valarchi - Episcleritis
430. h. Mudamayir - Trichiasis
431. 2.2 KATHU MARUTHUVAM (Ear diseases & Management)
432. Study of the following ear diseases with internal and external medicines: Sevi vatha noi - sevi soolainoi - sevi sannai noi - sevi vippuruthi noi - Sevi yezhuchi, Sevi Karappan - sevikkuttam - seviparu - sevipilavai
433. 2.3 MOOKKU MARUTHUVAM (Nasal diseases & Management)
434. 2.3.1 Peenisam - Nasal and paranasal sinus diseases.
435. 2.4 THONDAI MARUTHUVAM (THROAT DISEASES & Management)
436. 2.4.1 Infections of nasopharynx, Tonsils, Adenoids, Esophagus.
437. 2.4.2 Acute and chronic laryngitis
438. 3. PAL MARUTHUVAM (DENTISTRY)
439. 3.1 Pal noigal (Dental diseases) - Eeru noigal (Diseases of the gums) - Aids to Oral Hygiene.
440. 3.2 Abnormalities of Structure - Hypoplasia of the deciduous and permanent dentition -
441. classification of aetiological factors in hypoplasia - Fluorosis - Prevention of fluorosis.
442. 3.3 Attrition, Abrasion and erosion of the Teeth.
443. 3.4 Dental caries.

- 444. 3.5 Inflammation, Necrosis and Gangrene of pulp.
- 445. 3.6 Acute and chronic periapical abscess.
- 446. 3.7 Resorption of the Teeth.
- 447. 3.8 Cementum abnormalities associated with its formation.
- 448. 3.9 Stains and discolouration of the Teeth.
- 449. 3.10 Gingivitis - supra gingival and sub gingival calculus - Stomatitis.
- 450. 3.11 Congenital abnormalities of salivary glands - congenital atresia of the ducts
- 451. 4. THOL MARUTHUVAM (SKIN DISEASES & Management)
- 452. 4.1 Classification of Kutta noigal according to “Yugi chinthamani”
- 453. 4.2 Definition for common Dermatological terms Macule - Papule - Vesicles - Wheal -Pustule -Scales - Crust - Excoriations - Fissure -Ulcer - Scar - Alopecia Areata - Atrophy - Burrow - Comedone - Circinata - Erythema - Erythroderma - Erythemato - Squamous - Granuloma etc.
- 454. 4.3 Aids to healthy skin
- 455. 4.4 Karappaan - Dermatitis and Eczema.
- 456. 4.5 Padarthamarai - Tinea infections - Pimples(Acnes)- Verkuru (Prickly heat)
- 457. 4.6 Kanakkadi, Silvida thadippu- Urticaria
- 458. 4.7 Puzhu vettu-Alopaecia
- 459. 4.8 Podugu-Dandruf,Palunni-Molluscum, Maru-Wart
- 460. 4.9 Venpadai - Vitiligo and leucoderma
- 461. 4.10 Kalanjaga Padai - Psoriasis
- 462. 4.11 Sirangu- Scabies
- 463. 4.12 Perunoi - Leprosy



**482. II. MAGALIR MARUTHUVAM (Gynaecology)**

**483. 1. History, Examination and diagnostic procedure of a Gynecological patient.**

**484. 2. Congenital malformation of female genital organs.**

485. Vaginal - Uterine - Fallopian tube - ovarian anomalies - other anomalies.

**486. 3. Muthal Poopu(Sukharanam & Kukaranam):**

487. Puberty - Normal and abnormal. - Management and treatment

**488. 4. Poopu:**

489. Menstruation -Menstrual cycle-Hypothalamo-pituitary-Ovarian axis (H-P-O axis) - Premenstrualsyndrome. - Management and treatment

**490. 5. Kadai Poopu:**

491. Menopause - organ changes - Menopausal symptoms - Management in siddha.

**492. 6. Neuroendocrinology in relation to Reproduction.**

**493. 7. Poopu Kolarugal: (Disorders of Menstruation).**

**494. 8. Soothagavali: (Dysmenorrhoea):**

495. Siddha and modern concepts- Management and treatment

**496. 9. Karuppai Adithallal:(Displacement of Uterus).**

497. Genital prolapse - Retroversion - chronic inversion. - Management and treatment

**498. 10. Maladu:**

499. Infertility in Siddha and modern aspects - Types, Treatment and Management

**500. 11. Yoni Rogangal: Diseases of the Vagina in Siddha aspect and treatment.**

**501. 12. Koopaga Urupugallin azharchi: Infections of the pelvic organs.**

**502. 13. Siruneer vega Kolarugal: Urinary problems in Gynecology.**

**503. 14. Nan Maravai Kattigal-Karuppai: Benign lesions of the Uterus.**

504. Fibroid - polyps. - Management and treatment

**505. 15. Nachu Maravai Kattigal- Karuppai: Malignant lesions of the Uterus.**

506. Cancer of cervix, Uterus and Vagina. - Management and treatment

**507. 16. Nan Maravai Kattigal- Sinaippai- Benign lesions of the ovary.**

508. Polycystic ovarian Disease (PCOD) - Siddha treatment. Follicular cyst - Endometrial cyst

509. (Chocolate cyst) - Dermoid cyst. - Management and treatment

**510. 17. Nachu Maravai Kattigal - Sinaippai:**

511. Malignant Ovarian Tumors. - Management and treatment

**512. 18. Nagil Sothanai:**

513. Breast Examination - Fibroadenoma - Carcinoma. - Management and treatment

514. **III. KUZHANTHAI MARUTHUVAM- (PAEDIATRICS)**

**515. 1. Neo natal care, Infant care, Child care. (Sei, mazalalai, Siruvar Nalam)**

**516. 2. Breast milk (Thai paal)**

**517. 3. Pachchilam Kuzhantai (New born)**

**518. 4. Noi Thaduppu (Immunization)**

519. Immunization schedule. (IAP, WHO)-complication of immunisation- other schedules of immunization- Uraimaathirai.- CheiNei, Siddha concepts of Immunization.

**520. 5. Valarchi Nilaiikal (Growth and development)**

- 521. 6. Pathin Paruvam (Adolescent)**
- 522. 7. Ootasaththu Kuraipaadu (Nutritional deficiency disorders)**
- 523. 8. Paandu, Sobai, Kamalai.**
524. types, symptoms -management and line of treatment
- 525. 9. Thottru Noikal (Infectious diseases)**
- 526. 10. Irappai & Kudal Noikal(Gastro intestinal system.)**
- 527. 11. Suvaasa Noikal(Respiratory system.)**
- 528. 12. Thamaraga Noikal (Cardio vascular system.)**
- 529. 13. Maththiya Narambu Mandala Noikal (Central nervous system)**
- 530. 14. Janana Uruppu & Siruneeraga Paathai Noikal (Genito urinary system.)**
- 531. 15. Thasai Kolarukal (Musculo skeletal disorder)**
532. Muscular dystrophy. -Scoliosis. -Lordosis. -Kyphosis. -management and line of treatment
- 533. 16. Marabanu Kolarukal (Genetic disorder)**
- 534. Down's syndrome & its management**
- 535. 17. Naalamilla Kolarukal (Endocrine disorder.)**
- 536. 18. Kirumi (Helminthic infestations)**
- 537. 19. Thol Noikal (Skin infections)**
- 538. 20. Sevi Mooku Thondai Noikal (ENT diseases)**
- 539. 20.1 Sevinoigal- Seezhvadithal - Acute & Chronic Otitis media -management and line of**
- 540. treatment.**
- 541. 20.2 Mookunoigal-peenisam, Epistaxis, mookadaippu-Nasal polyp -management and line of treatment**

542. **20.3 Thondainoigal-Lasunathapitham, men, van annampaathippu (laryngitis, pharyngitis) -**
543. **management and line of treatment**
544. **20.4 foreign body in ENT-management and line of treatment**
545. **21. Kann Noikal (Eye diseases)**
546. congenital cataract -Ophthalmianeonatorum -Amaram -Maalaikann. -Pulithakann. -management andline of treatment
547. **22. Piravi Kuraipaadu (Birth defects)**
548. **Cleft lip -Cleft palate.Talipes (clubfoot) -osteogenesisimperfecta -Imperforate Anus**
549. **23. Pothuvaana Noikal (General children diseases)**
550. Mala vaatham - Adithallal - Vithaivaatham.-Umbilical hernia-Naaimul -Kudaletram - Aasanavedippu-Maru

**NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.**