



(For Academic Year 2009-10 batch)

Scheme of Practicals for Final M.D. (Ayurved)
Subject –Rasa shastra.

Duration: - 2 Years

i) Departmental Practicals :-

100

Student should prepare following drugs / perform practicals, (Any 100 out of 126) under supervision of Guide and record the same in Practical Journal.

(Proforma of journal is attached herewith as Annexure A)

- 1) Hidgulotha Parad Nirman
- 2) Parad Shamanya Shodhan
- 3) Parad Swedan Sanskar
- 4) Parad Mardan Sanskar
- 5) Parad Murchan Sanskar
- 6) Parad Uthapan Sanskar
- 7) Parad Trividha Patan Sanskar
- 8) Parad Rodhan Sanskar
- 9) Parad Niyman Sanskar
- 10) Parad Dipan Sanskar
- 11) Gandhak Shamanya Sanskar
- 12) Gandhak Vishesh Shodhan
- 13) Gandhak Drutri Nirman
- 14) Gandhak Rashayan Nirman
- 15) Kajjali Nirman
- 16) Rasparati Nirman
- 17) Rassindur Nirman
- 18) Raspottali Nirman
- 19) Ahbrak Shodhan
- 20) Dhanyabrak Nirman
- 21) Abhrak Maran
- 22) Abhrak Amrutikaran
- 23) Abhrak Lohitikaran
- 24) Abhrak Satwapatan
- 25) Suvarnmachhik Samanya Shodhan
- 26) Suvarnmachhik Vishesh Shodhan
- 27) Suvarnmachhik Maran
- 28) Suvarnmachhik Amrutikaran
- 29) Shilajatu Prapti Agnitapi
- 30) Shilajatu Prapti Suryatapi
- 31) Shashak Shodhan
- 32) Shashak Satwapatan
- 33) Shashak Maran
- 34) Chapal (Bismuth) Shodhan
- 35) Gairik Shodhan
- 36) Gairik Satwapatan
- 37) Kaashis Shodhan
- 38) Kaashis Maran
- 39) Kanchi Shodhan

- 40) Hartal Samanya Shodhan
- 41) Hartal Vishesh Shodhan
- 42) Hartal Bhasm Nirman
- 43) Rasmanikya Nirman
- 44) Man Shila Shodhan
- 45) Rashajjan Nirman
- 46) Pushapajjan Nirman
- 47) Souvirajjan Nirman
- 48) Kadkushat Shodhan
- 49) Kampilak Shodhan
- 50) Gouripashan Shodhan
- 51) Gouripashan Maran
- 52) Navshagar Shodhan(Urdhavpatan)
- 53) Kaprdra Shodhan
- 54) Kaprdra Maran
- 55) Agnijaar Collection
- 56) Girisindur Collection
- 57) Hindgul Shodhan
- 58) Mugdh Ras Nirman
- 59) Raspushapa Nirman
- 60) Rasakpur Nirman
- 61) Rashpushap Malhar Nirman
- 62) Rasakpur Malhar Nirman
- 63) Suvarn Samanya Sodhan
- 64) Suvarn Vishesh Sodhan
- 65) Suvarn Dhatu Pishti Nirman
- 66) Suvarn Maran
- 67) Makardhavaj Nirmanartha Kajjali Nirman
- 68) Makardhavaj Nirman
- 69) Raupya Samanya Shodhan
- 70) Raupya Vishesh Shodhan
- 71) Raupya Maran
- 72) Raupyasindur Nirman
- 73) Kantloh Samanya Shodhan
- 74) Kantloh Vishesa Shodhan
- 75) Kantloh Sthalipak
- 76) kantloh Bhanupak
- 77) Kantloh Putpak
- 78) Mandur Shodhan
- 79) Mandur Maran
- 80) Tamra Samanya Shodhan
- 81) Tamra Vishesh Shodhan
- 82) Tamra Dhatu Pishti Nirman
- 83) Tamra Sindur Nirman
- 84) Tamra Bhasm Nirman
- 85) Tamra Amrutikaran
- 86) Somnathi Tamra Basma Nirman
- 87) Wadg Samanya Shodhan
- 88) Wadg Vishesh Shodhan
- 89) Wadg Jharan
- 90) Wadg Basma Nirman
- 91) Swarnyawadg Nirman
- 92) Yashad Samanya Shodhan
- 93) Yashad Vishesh Shodhan
- 94) Yashad Jharan

- 95) Yashad Maran
- 96) Nag Samanya Shodhan
- 97) Nag Vishesh Shodhan
- 98) Nag Jaran
- 99) Nag Maran
- 100)Trivedag Bsham Nirman
- 101)Kansyaloh Nirman
- 102)Shadkya Shodhan
- 103)Shadkya Maran
- 104)Shukti Shodhan
- 105)Shukti Maran
- 106)Godanti Shodhan
- 107)Godanti Maran
- 108)Akik Pishti Nirman
- 109)Jaharmohara Pishti Nirman
- 110)Shwet Parpati Nirman
- 111)Tribhuvankirti Ras Nirman
- 112)VasyhaNaba Shodhan
- 113)Dhattur Shodhan
- 114)Gujja Shodhan
- 115)Ballatak Shodhan
- 116)Ballatak Tail Patan
- 117)Kuchala Shodhan
- 118)Tadkan Shodhan
- 119)Mayurpicha Mashi Nirman
- 120)Kukkutandtawak Basma Nirman
- 121)Ajjashti Bashma Nirman
- 122)Shadkhadharvya Nirman
- 123)Smirpannag Ras Nirman
- 124)Loknath Ras Nirman
- 125)Badrasham Shodhan
- 126)Badrasham Marans

- | | | |
|------|---|-----------|
| ii) | Research Project (other than Dissertation) :
Student should work on a specific topic related to Rasa Shastra as allotted by Guide as per instructions and format provided in the P.G. Log Book | 1 |
| iii) | Compilations :
Student should prepare Compilations on a specific topic related to Rasa Shastra as allotted by Guide as per instructions provided in the P.G. Log Book | 8 |
| iv) | Clinical Case Study : (Desirable)
Student should study 15 cases and record the case in prescribed format (attached herewith as Annexure B) as per instructions provided in PG Log Book. | 15 |
| v) | Drug Testing and Drug Standardization
Chromatographic separation T.L.C., H.P.T.L.C. (Desirable) or any other applicable tests – Any 10 Drugs | 10 |
| | a) Bhasmas | - 3 |
| | b) Pottali | - 1 |
| | c) Parpati | - 2 |
| | d) Khalvi Rasayan | - 2 |
| | e) Sindur | - 1 |
| | f) Sudha Varga | - 1 |

vi) Educational Visits

8

The brief report of each visit should be written by student in a journal (Duly signed by Guide and HOD)

- a) Visit to one Local Ayurvedic Pharmacy (GMP Approved)
- b) Visit to one State Ayurvedic Pharmacy (GMP Approved)
- c) Visit to one out of State Ayurvedic Pharmacy (GMP Approved)
- d) Visit to three R&D Centre of Modern Pharmacy (MNC) such as Glaxo, Pfizer, FDA Laboratory etc.
- e) Visit to Vipashana Centre Igatpuri and Pagoda Gorai, Mubami (Desirable)
- f) Visit to Siddha College and Siddha Pharmacy in Tamilnadu (Desirable)

PROFORMA
Departmental Practicals

Practical No: _____ Date: _____

Practical name: _____ Time: _____

Aim: _____

Reference: _____

Equipments: _____

Required Drugs:

No	Drug Name	Qty.	No	Drug Name	Qty.
1			6		
2			7		
3			8		
4			9		
5			10		

Method: _____

Procedure: _____

Diagram:

Therapeutic indications:

No	Disease	Action	Dose	Anupan	Time
1					
2					
3					
4					
5					

Any other uses : _____

Potency of the drug : _____

Sign. of Student

Date :-

Sign. of Guide

Date :-

PROFORMA
Clinical Case Study

STUDY TITLE : Assessment of _____ & confirmation of mode of action

SUBJECT NO : _____

SUBJECT NAME :

AGE :

SEX :

OCCUPATION : _____

ADDRESS : _____

_____ **TEL** _____

DATE OF FIRST VISIT : _____

INFORM CONSENT FORM :

PAST HISTORY/POORVA ROOPA :

CHIEF COMPLAINTS/ROOPA: _____

INCLUSION CRITERIA :

EXCLUSION CRITERIA :

VISIT FIRST :

DATE OF VISIT : _____

A) PHYSICAL EXAMINATION

SR. No	Body system	ND	Normal	If Abnormal		Abnormality in brief
				NCS	CS	
1	Skin					
2	Head, Eyes, Ears, Nose, Throat					
3	Respiratory					
4	Cardiovascular					
5	Gastrointestinal					
6	Neurological					
7	Lymphatic					
8	Musculoskeletal					
9	Urogenital					
10	Other (Specify)					

ND: Not Done, NCS: Not Clinically Significant, CS: Clinically Significant (If abnormal CS, enter in medical History)

B) SCREENING VISIT

VITAL SIGNS (in supine position after 3 min. rest)

Sr. No.	Parameter	ND	Value	Normal	If abnormal		Abnormality in brief
					NCS	CS	
1.	Blood pressure(mmHg)						
2.	Heart rate(bpm)						
3.	Body temperature(°F) Oral Axillary						
4.	Respiration Rate(/min)						

ND: Not Done, NCS: Not Clinically Significant, CS: Clinically Significant (If abnormal CS, enter in medical History)

VYADHI PRAKRITI : _____
RUGNAPRAKRITI : _____
DOSHA : _____
DUSHYA : _____
BALA : _____
KAAL : _____
VAYA : _____
AGNI : _____
PRAKRITI : _____
SAAR : _____
SATVA : _____
SATMYA : _____
AHARSHAKTI : _____
VYAYAMSHAKTI : _____
NIDAAN : _____

AAHARJANYA : _____

VIHARJAYNYA : _____

VYASANJANYA : _____

AUSHADHIJANYA : _____

VYADHIJANYA : _____

KAALJANYA : _____

KULAJANYA : _____

C) 12 LEAD ECG (in supine position after 5 min)

Date of examination						
Sr. No.	Parameter	Value	Normal	If abnormal		Abnormality in brief
				NCS	CS	
1.	Qtc(msec)					
2.	QTcB(msec)					
3.	Overall interpretation of ECG					

ND: Not Done, **NCS:** Not Clinically Significant, **CS:** Clinically Significant (If abnormal CS, enter in medical History)

D) CHEST X-RAY

Date of investigation:					
Examination	ND	Normal	If abnormal		Abnormality in brief
			NCS	CS	
Chest X-ray					

ND: Not Done, **NCS:** Not Clinically Significant, **CS:** Clinically Significant (If abnormal CS, enter in medical History)

E) HEMATOLOGY:

Date of sample collection:					
Sr. No.	Parameter	ND	Normal	If abnormal	
				NCS	CS
1.	WBC				
2.	RBC				
3.	Haemoglobin				
4.	MCV				
6.	MCH				
7.	MCHC				
8.	Platelate				
9.	WBC differential count				
9.a	Neutrophils				
9.b	Lymphocytes				
9.c	Monocytes				
9.d	Eosinophils				
9.e	Bosophils				

ND: Not Done, **NCS:** Not Clinically Significant, **CS:** Clinically Significant (If abnormal CS, enter in medical History)

F) URINE ANALYSIS:

Date of urine sample collection:					
Sr. No.	Parameter	ND	Normal	If abnormal	
				NCS	CS
1.	Protien				
2.	Glucose				
3.	Ketones				
4.	Blood				
5.	Bilirubin				
6.	Urine Microscopy				
6.a	Pus cells				
6.b	RBC				
6.c	Casts				

ND: Not Done, **NCS:** Not Clinically Significant, **CS:** Clinically Significant (If abnormal CS, enter in medical History)

G) LIPID PROFILE

Sr. No.	Parameter	ND	Normal	If abnormal	
				NCS	CS
1.	Total cholesterol				
2.	Triglycerides				
3.	HDL				
4.	LDL				
5.	VLDL				

ND: Not Done, **NCS:** Not Clinically Significant, **CS:** Clinically Significant (If abnormal CS, enter in medical History)

DIAGNOSIS : _____

MEDICATION DETAILS : _____

SOURCES : _____

INGREDIENTS : _____

MANUFACTURING METHOD: _____

TEST DETAILS-Physical/Analytical : _____

BATCH NO : _____

H) MANUFACTURING DATE

Sr. No.	Ingredients	Pharmaceutical value	Therapeutic value
1.	Mercury		
2.	Sulphur		
3.	Copper		
4.	Iron		
5.	Aluminium		
6.	Zinc		
7.	Arsenic		

DRUG/KALPA : _____

ETIOPATHOGENESIS/HETU SAMPRAPTI : _____

BREAK UP OF ETIOPATHOGENESIS/Samprapti Vighatn : _____

***ANCIENT POINT OF VIEW** : _____

***MODERN POINT OF VIEW** : _____

I) ADVERSE DRUG REACTION IF ANY

SR.NO	Mercury	Arsenic	Lead	Copper	Zinc	Iron	Calcium
1.	Metallic Taste	Acute G.I disturbances	Same as of arsenic except diarrhea is replaced by constipation	Metallic Taste	G.I disturbance	Nausea	Reduce bone mass
2.	Throat constriction	Nausea	Dry throat	Salivation	Metallic taste	Vomiting	Osteoporosis
3.	Burning sensation from mouth to stomach	Burning in G.I tract	Metallic astringent taste	Thirst	Gullet	Diarrhoea	
4.	Radiating pain over Abd.	Severe, continuous and persisting vomiting	Thirst	Burning in stomach	Vomiting	Constipation	
5.	Corrosion of mouth, tongue, faeces	Diarrhoea	Nausea	Colicky abdominal pain	Diarrhoea	Iron overload with organ damage	
6.	Mucous membrane appears grayish white	Intense thirst	Colicky pain	Vomiting	Collapse		
7.	Nausea	Cramps in legs	Vomiting	Diarrhoea	Destruction of mucus membrane		

					of mouth		
8.	Vomiting with stringy mass of bloody white mucous	Oligouria	Purging	Collapse	Bloody purging		
9.	Profuse bloody purging	Skin eruption in later stage	Offensive black faeces	Liquid brown stool			
10.	Painful tenesmus		Cramps	Inky appearance of urine			
11.	Cardio-respiratory arrest.		Headache drowsiness	Oligouria			
12.			Paralysis	Severe headache			
13.			Encephalopathy	Dyspnoea			
14.			Sleeplessness	Jaundice			
15.			Hallucination	Muscle cramp			
16.			Excitement	Convulsion			
17.			Delerium	Coma			
18.			Tremors of eyes ,mouth and fingers				

WHO Scaling for ADR : _____

Temporal Relationship : _____

Concomittant Disease : _____

Concomittant Drug : _____

Causative Dechallenge : _____

Causative Rechallenge : _____

Comments : _____

Sign. of Student

Date :-

Sign. of Guide

Date :-