

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

KAYACHIKITSA

PAPER – I

Kayachikitsa Siddhantah – Fundamentals of Kayachikitsa

Q.P. Code: 4221

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Explain principles and practices of vajikarna in detail.	(10+10)
2. Explain clinical methods of history taking and patient's examinations as per ayurveda and modern system of medicines.	(8+6+6)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Explain the importance of anupana, pathya and apathy in medical practice along with mode of action of these factors.	(2.5+2.5+2.5+2.5)
4. Write about fundamentals and basic interpretations of Ultra Sono Graphy (USG)	(4+6)
5. Explain the scope and limitations of satvavajaya chikitsa with examples.	(4+6)
6. Write the clinical utility and method of dashavidha pariksha in medical practice.	(3+7)
7. Explain the principles, indications, contra indications and procedure of CT scan.	(2.5+2.5+2.5+2.5)
8. Write any five National Health Programmes and discuss role of Ayurvedic Services in them.	(2+2+2+2+2)

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[Signature]

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

KAYACHIKITSA

PAPER – II

Samanya Roga Chikitsa

Q.P. Code: 4222

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Explain aetiopathogenesis and management of PRAMEHA along with diabetes mellitus. (11+9)
2. Describe pranavaha srotodusti karana, lakshana, chikitsa and management of tamakashwasa along with Bronchial Asthma. (3+3+3+6+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe samanya chikitsakrama in krimi roga along with management of Helmenthiasis. (5+5)
4. Write management of Amavata and Rheumatoid Arthritis. (5+5)
5. Explain treatments of ajeerna roga and mention the types of the same. (8+2)
6. Explain treatment of mutrakricchra and urinary tract infection. (6+4)
7. Write nidana and chikiysa of sthoulya roga. (2+8)
8. Write investigations, clinical features and management of hypertension. (2+3+5)

Verified
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POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

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Max. Marks: 100

KAYACHIKITSA

PAPER – III

Modern Therapeutics

Q.P. Code: 4223

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All the questions are compulsory.

***LONG ESSAY QUESTIONS:**

Marks

2 X 20 = 40

1. Define Neuro muscular disorders. Write in detail about effect features, investigations and management of Cerebro vascular accidents. (2+4+5+9)
2. Describe Sankramika roga and explain cause, features along with treatment of Phiranga and syphilis. (3+2+4+6+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write nidana, samprapti, pratyatma lakshana and chikitsa of Gridhrasi. (2+2+2+4)
4. Write samprapti, lakshana and chikitsa of Apasmara vyadhi. (3+2+5)
5. Define Autoimmune diseases and write features along with management of systemic lupus erythematosus. (2+3+5)
6. Write poisonous symptoms and management of snakebite intoxication. (4+6)
7. Write about Ashtanindita purusha and their clinical importance. (6+4)
8. Write features and treatment approach in Atatwabhinivesh with modern co-relation. (5+5)

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POST-GRADUATE DEGREE EXAMINATION - AUGUST 2020
MD AYURVEDA PART - II (FINAL YEAR)

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Max. Marks: 100

KAYACHIKITSA

PAPER - IV

Advances in Kayachikitsa

Q.P. Code: 4224

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All the questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Explain National Health campaigns of Ayush and components under NRHM.
2. Write in detail the scope and methods of independent as well as collaborative research in Ayurveda.

(10+10)

(4+8+8)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Explain indications and importance of Organ Transplantation along with ethical- legal issues involved in it.
4. Discuss the scope of Radioisotopes disease and tumour markers in diagnosis as well as assessment of therapy.
5. Write strategies of disaster management and role of medicine in the same.
6. Discuss the role of physical medication and rehabilitation in medical practice.
7. Explain the role of Ayurvedic medicines in new emerging challenges like;
a). Chikungunya
b). Fibromyalgia
8. Explain briefly the advancement in Rasayana and Vajikarana therapies.

(2+3+5)

(2.5+2.5+2.5+2.5)

(5+5)

(5+5)

(4+6)

(5+5)

No collection

(20/08/2020)
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POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MS AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SHALYATANTRA

PAPER – I

Shalya Siddhanta- Fundamentals of Surgery

Q.P. Code: 4225

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

LONG ESSAY QUESTIONS:

Marks

2 X 20 = 40

1. Explain dosha, dhatu & mala vigyana and their importance in surgical diseases. (10+10)
2. Define yantra mention its types and explain in detail about ancient yantra with modern surgical instruments. (2+8+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Explain sterilization methods according to Ayurveda and modern science. (5+5)
4. Describe importance of purvakarma & paschat karma in surgical practice. (5+5)
5. Explain the source of surgical infection & their control. (5+5)
6. Differentiate between benign & malignant tumors. (5+5)
7. Describe concept of Bandhana & Bandaging techniques. (5+5)
8. Explain about pre-operative & post-operative nutrition. (5+5)

Verified
MP
MB
Dr. Manjula Machiwale
18/08/2020

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MS AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SHALYATANTRA

PAPER – III

Adhunik Shalya Karma (Modern Surgery)

Q.P. Code: 4227

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Describe the procedure of Ksharakarma in haemorrhoids and ksharasutra in fistula in ano.	(10+10)
2. Explain about appendicular mass and its management.	(10+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Describe carcinoma of stomach and its treatment.	(5+5)
4. What is Goitre? Explain thyroidectomy	(5+5)
5. Describe benign tumors of breast and explain the mastectomy procedure in details	(4+6)
6. Describe blast injuries and its management.	(5+5)
7. Explain in detail about general anaesthesia	(10)
8. Describe femoral hernia and its treatment	(5+5)

Mark distribution for Q. 7 is done as 10.
Correction done

P.K. Reddy
(Dr. Kamesh Reddy)
2.20 PM

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MS AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SHALYA TANTRA

PAPER – IV

*Shalya Vangmaya – Shalya Literature,
Research & Development*

Q.P. Code: 4228

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All the questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Describe vascular anastomosis and grafting	(10+10)
2. Define Agnikarma, types, dahanopakaranas, indications, contraindications & its utility.	(5+5+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Describe ksharakarma in Haemorrhoids.	(10)
4. Explain national health policy.	(10)
5. Describe complications of sepsis	(10)
6. Write about different types of experimental surgical models for research in surgery.	(10)
7. Write about importance of decision making in surgical practice	(10)
8. Describe contribution of sushruta to surgical field	(10)

No corrections

P. K. K. K.
CD to Ramesh E.
21/8/2020

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

KAUMARBHRITYA

PAPER – I

Bija, Garbha Vigyaniya

Q.P. Code: 4229

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Explain the shukradoshas enumerated in the classical ayurveda texts along with modern correlations and their management.	(20)
2. Write in detail about the role of matrujadi shad bhava in a healthy progeny.	(20)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Explain the ayurvedic understanding of congenital anomalies and how these factors influence the garbha vikruti?	(6+4)
4. Write on "Garbha poshana krama" according to ayurveda.	(10)
5. What is meant by Jataharini? Explain any two Jataharini's effecting the factors.	(3+4+4)
6. Write a brief note on "Sahaja Hridaya Vikara".	(10) (2+4+4)
7. What is Yamala Garbha? Explain its complications and management.	(10)
8. What is meant by "Genetic inheritance"? Explain the single gene inheritance with examples.	(3+7)

Verified, ~~no~~ corrections done.
[Signature]
(Dr. Venak. H.)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

KAUMARBHRITYA

PAPER – II

Navajata Shishu Vigyan Evum Poshana

Q.P. Code: 4230

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. What is meant by "Pranapratyagamana"? Explain the resuscitation measures schematically in a newborn.	(3+17)
2. Who is called a preterm baby? Write the management schedule of preterm baby.	(2+18)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. What is meant by "Orifice counting"? Explain the procedure with their importance.	(2+8)
4. Explain the clinical features of diseases occurring due to improper cutting of umbilical cord and their management.	(10)
5. Write a short essay on birth injuries, the classification and management of any two common birth injuries.	(5+5)
6. What is meant by term baby? Differentiating the preterm – term and post term, explain the management of post term babies.	(1+6+3)
7. Explain care of newborn according to Ayurveda and modern science.	(5+5)
8. What are the common anatomical anomalies of the Gastro-Intestinal seen in new born and how they are diagnosed and managed?	(3+7)

verified, no correction
[Signature]
(Dr. Veena K. H.)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

KAUMARBHRITYA

PAPER – III

Balaroga (Paediatric Disorders)

Q.P. Code: 4231

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. ^{Explain} Explaining the Balagraha in detail, discuss the scientific basis of the concept of Balagraha in Ayurveda.	
2. How nutritional deficiency disorders are diagnosed? Explain any two conditions in detail along with their management	(6+7+7)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Discuss the differential diagnosis of Udara shoola in children with the management of each condition.	(10)
4. Explain Apasmara chikitsa in children	(10)
5. Enlisting the commonly seen tvak vikara in children, write the etiological factor, clinical features and management of scabies.	(3+7)
6. Explain the disease 'Charmadala', its classification, clinical features and management	(10)
7. Write a short essay on accidental poisoning in children and their management with one example of your choice.	(10)
8. Discuss the bleeding disorders seen in children with their management.	(10)

Verified, corrected.
Dr. Venkatesh H

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

KAUMARBHRITYA

PAPER – IV

Balaposhana and Recent Advances

Q.P. Code: 4232

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

LONG ESSAY QUESTIONS:

Marks
2 X 20 = 40

1. Write an essay on Lehana karma, different lehana yogas and their benefits.
2. Write an essay on child psychology and its implications on personality development.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write an essay on alternate feeding, methods, benefits and precautions. (4+2+2+2)
4. How 'snehana' is practiced in children? Explain with examples.
5. Write shortly on the different Author's approaches ^{on} phposology (drug dosage) in children.
6. What is the specialty of chaturbhadra kalpa basti? Explain the different basti schedules and their benefits. (4+6)
7. Write a short essay on stanyotpatti, stanya prasruti and stanya mahatva (benefits of breast-feeding) with logical comments. (3+2+5)
8. Write on "Ideal paediatric hospital"

Verified, correct
Dr. Venma P. A.

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

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Max. Marks: 100

PANCHAKARMA

PAPER – I

Purva Karma-Snehana and Svedana

Q.P. Code: 4233

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define Snehana. Write its classification. Explain indication and contraindications of Snehana.
2. Write a note on Current Sudation Modalities.

(2+5+5+8)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write a note on Massage Techniques.
4. Complications of Swedana and their management.
5. Chaturvida swedana and their utility.
6. Explain fat metabolism.
7. Explain takradhara and its utility in various clinical conditions.
8. Write a note on Avapidakasneha.

Checked & verified
G. S. S.
18/8/20

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

PANCHAKARMA

PAPER – II

Vamana and Virechana Karma

Q.P. Code: 4234

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define Vamana. Explain the role of vamana in Promotion of health, prevention and treatment of disease. (5+5+5+5)
2. Define Virechana. Explain virechanavidhi in detail. (5+15)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write a note on Shuddhi nirnaya.
4. Explain “_____pakshagathevirechanam”.
5. Write a note on “Scope of vamana and virechana in jwara chikitsa”.
6. Explain vamana karmukata.
7. Method of preparation and indications of Ichhabedi rasa.
8. Complication of vamana and virechana karma and their management.

Verify and
No corrections

~~19/08/2020~~
19/08/2020
(Dr. Vishwanath)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

PANCHAKARMA

PAPER – III

Basti Karma and Nasya Karma

Q.P. Code: 4235

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

	Marks
*LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Define Vasti karma and write its classification. Discuss the Sameekshya Bhavas for vasti karma	(5+5+10)
2. Explain Nasya vidhi in detail	(10+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Discuss Vasti Vyapath and its management	
4. Write a note on Pharmaco dynamics of Uttara vasti	
5. Write a note on Pradhamana Nasya	
6. Discuss indications and contraindications of Niruha Vasti	
7. Explain Yapana vasti and discuss its utility in clinical practice	
8. Write a note on "Scope of research in Nasya karma".	

Verified & Correct
Dr. R.V. Sarapat
20-8-2020
2.20 pm

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

PANCHAKARMA

PAPER – IV

Raktamokshana, Physiotherapy and Disease specific Panchakarma

Q.P. Code: 4236

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define Raktha Mokshana, Write its classification and explain Mode of action of different types of Raktha Mokshana. (5+5+10)
2. Write a note on "Role of Physiotherapy exercise in different clinical condition".

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Explain the "Role of Panchakarma in management of Geriatric Disorders"
4. Utility of Panchakarma in the management of Amavata.
5. Discuss indications-contraindications of Jaloukavacharana.
6. Write a note on "S.W.D"
7. Role of Panchakarma in management of Kusta
8. Scope of Paraffin wax bath.

Verified & correct

Supat
S. R. S.

21-8-2020
2:15 pm

KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, BELAGAVI.

[Declared as Deemed-to-be University]

Accredited 'A' Grade by NAAC(2nd Cycle)

Placed in 'A' Category by MHRD (Gov)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020

MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

AGADA TANTRA EVUM VIDHI VAIDYAKA

PAPER – I

Agada Tantra (Ayurvedic & Contemporary Toxicology)

Q.P. Code: 4237

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Describe examination of poisons as per ayurvedic & contemporary methods.	(10+10)
2. Write definition, prodromal features, signs and symptoms, prognosis and contemporary relevance of dooshi visha	(3+3+5+3+6)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Describe "Rabies with respect to pathology spread of disease, period of communicability and signs & symptoms in man.	(2+2+2+4)
4. Describe features of chronic lead poisoning, postmortem appearances and medico legal importance.	(5+2+3)
5. Describe "tobacco" with respect to chronic poisoning, postmortem appearances & medico legal importance.	(5+2+3)
6. Describe pharmacovigilence & drug interactions.	(5+5)
7. How "Viruddha Ahar acts as a poison write contemporary relevance of viruddha Ahar.	(5+5)
8. Describe ancient & recent concepts of environmental pollution.	(5+5)

Verified and
found correct
(Signature)
(Date)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020

MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

AGADA TANTRA EVUM VIDHI VAIDYAKA

PAPER – II

Visha Chikitsa Vigyan (Management of Poisoning)

Q.P. Code: 4238

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Write general principals of treatment of poisoning and describe in detail about route wise treatment of unabsorbed poisons. (10+10)
2. Write signs & symptoms of acute & chronic lead poisoning, its diagnosis, treatment, autopsy findings and medico legal importance. (3+6+2+5+2+2)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe mechanism of action, signs & symptoms and general treatment of "alkali" poisoning. (2+4+4)
4. Write active principles, treatment, postmortem findings & medico legal importance of Dhatura. (2+3+2+3)
5. Define "Chelating Agents" & write dosages and indications of BAL, EDTA & penicillamine. (1+3+3+3)
6. Describe postmortem findings in cases of poisoning and write extra corporeal techniques of removal of poisons. (5+5)
7. Describe treatment of "Garvisha" and "Dooshivisha". (5+5)
8. Describe treatment of "Rabies". (10)

Verified and
found correct
(Bansal Pd)
19/8/2020

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

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Max. Marks: 100

AGAD TANTRA EVUM VIDHI VAIDYAK

PAPER – III

Vyavahara Ayurved Evam vidhi Vaidyaka

Q.P. Code: 4239

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Describe definition, purpose, types and rules for medicolegal autopsy	(2+3+2+13)
2. Describe written, oral and circumstantial medical evidences	(12+5+3)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Explain modes of death as per Bichat	(10)
4. Describe finger printing and DNA finger printing	(6+4)
5. Describe hanging with respect to definition, types, signs and symptoms and causes of death.	(2+3+3+2)
6. Explain burns with respect to degrees, causes of death and rule of 9	(3+4+3)
7. Write definition, causes and medico legal aspects of impotence	(2+4+4)
8. Describe "Consumer Protection Act"	(10)

verified and found
correct
(Dhanesh. RP)
20/08/2020.

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020

MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

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AGAD TANTRA EVUM VIDHI VAIDYAK

PAPER – IV

Aushadha yoga vigyana

Q.P. Code: 4240

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Describe viscera preservation for chemical analysis with respect to indications, routine viscera, additional viscera, collection and packing and preservatives used.	2+5+5+5+3
2. Describe “Aragvadhadi” and “Eladi” gana of Vagbhata	10+10
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Describe different instruments used in the examination of poisons	
4. Write different diagnostic tests for alcohol and morphine	5+5
5. Describe “Bilvadi Agada” with respect to constituents, mode of action, indications, dosage and routes of administration.	2+2+3+1+2
6. Describe clinical toxicology	
7. Explain chromatographic methods in toxicology	
8. Describe “Chelating agents”.	

Verified and found
correct
(D. S. S. S. S.)
(D. S. S. S. S.)
21/08/2020

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SHALAKYA TANTRA

PAPER – III

Shalakyā –Mukha -Danta roga

Q.P. Code: 4247

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Enumerate kanthagata rogas. Write nidhana, samprapti, lakshana, sadyasadyata and chikitsa of Rohini and Swaraghna.	(2+8+8)
2. Enumerate osthagata rogas according to Vagbhata. Write the clinical features and management of khandoushta with modern correlation.	(2+8+8)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Write etiology, clinical features and treatment of benign tumours of oral cavity.	(2+2+6)
4. Write etio-pathogenesis, clinical features and management of Cleft palate.	(3+3+4)
5. What are the indications for tooth extraction? Explain in detail about Danta-Utpatana (tooth extraction) using Jalandhara Bandha yoga.	(2+8)
6. Write clinical features of sheetada, bhanjanaka, mamsatana, putimukha and kachchpa.	(2+2+2+2+2)
7. Write a note on Leukoplakia and Mucocele.	(5+5)
8. Occlusal Radiography.	(10)

Verified
No. correction
20/8/20
2.15 pm

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SHALAKYA TANTRA

PAPER – IV

Shalakyavishishtha Chikitsa Vigyan

Q.P. Code: 4248

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Discuss about the preventive therapeutic concepts of ocular diseases.	(20)
2. Discuss about the role of Kshara karma, Agnikarma and Panchakarma in Nasaroga chikitsa.	(20)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Explain the use of lasers in diabetic retinopathy.	(10)
4. Write a note on Speech therapy and rehabilitation of the deaf and mute.	(10)
5. Applied aspects of Imaging in ENT and head disorders.	(10)
6. Effect of systemic diseases on ENT diseases and their modern and ayurvedic management.	(10)
7. Explain the swasthavrutta and its adoptability in the present scenario for mukha swastha.	(10)
8. Role of Panchakarma chikitsa in shirogata rogas.	(10)

No corrections
JP
(Dr. Veishali Pasari)
21/08/2020 2:16 PM

KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, BELAGAVI.

[Declared as Deemed-to-be University]

Accredited 'A' Grade by NAAC(2nd Cycle)

Placed in 'A' Category by MHRD (GoI)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

RASAYANA & VAJIKARANA

PAPER – I

Concept & Practice of Rasayana

Q.P. Code: 4249

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Write long essay including below:
 - a) Concepts of rasayana. (5)
 - b) Rasayana in perspectives of Micronutrients (3)
 - c) Dhatu specific rasayana (5)
 - d) Concepts of Ojas (5)
 - e) Ojas-Vriddhi-karabhava (2)
2. Write long essay including below
 - a) Naimittika Rasayana-Vyadhihara and Vyadhiapunarbhava. (10)
 - b) Concept & practice of Achararasayana. (5)
 - c) Panchakarms and its role in Rasayana (5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write short essay on Vatatapika Rasayana
4. Write short essay on Rasayana in relation to Anabolic activity.
5. Write short essay on Strotaswise Rasayana pryooga.
6. Write short essay on stem cell theories.
7. Write short essay on Immune disorders.
8. Write short essay on Kalaja Jara.

Verified
Suresh
Dr. Swarda
18/08/20 (2:10 pm)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

RASAYANA & VAJIKARANA

PAPER – II

Concepts of Apatya & Susantaana

Q.P. Code: 4250

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Write long essay including below:
 - a) Etio-pathogenesis, diagnosis & management of oligospermia. (11)
 - b) Sperm function tests, semen & cervical mucus interaction. post coital test. (6)
 - c) Knowledge of cystoscopy. (1)
 - d) Scrotal scan & Doppler. (2)
2. Write long essay including below
 - a) Etymology, derivation & description of vandhya, vandhyaa & apatya. (3)
 - b) Importance & essentials of fertility. (7)
 - c) Description garbhasambhavasamagri, garbhadana paricharya & garbhutpatti. (10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write short essay on Pyospermia.
4. Write short essay on Karyotyping.
5. Write short essay on Ejaculatory disturbance.
6. Write short essay on Dal - castele's syndrome.
7. Write short essay an Applied aspects of Vajikarna.
8. Write short essay an Klinefelters syndrome.

Verified
Dr. Swarida Appin
19/08/20 (2:05 pm)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

RASAYANA & VAJIKARANA

PAPER – III

Concept & Practice of Vajikarana

Q.P. Code: 4251

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

LONG ESSAY QUESTIONS:

Marks
2 X 20 = 40

1. Write long essay including below:
 - a) Description of male sexual dysfunctions with etio – pathogenesis, diagnosis & management. (13)
 - b) Hermaphroditism's details about classification and clinical manifestation. (6)
 - c) Sexual ethics. (1)
2. Write long essay including below (5 X 4)
 - a) Knowledge of contraception & contraceptives
 - b) Haemodynamics. *of erection.*
 - c) Description of klaibya with chikitsa
 - d) Shukrottejaka, Shukrasrutikara, Aharsha & Apraharshabhava

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write short essay on scope and application of vajikarana in present scenario. (10)
4. Write short essay on Ashtangamaithuna (10)
5. Write short essay on abnormal sexual behavior (10)
6. Write short essay on Dhat syndrome (10)
7. Write short essay on Mutrashukra (10)
8. Write short essay on Penile Doppler (10)

Verified
Swarida
Dr. Swarida Uppl
29/08/20 02:25p

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

RASAYANA & VAJIKARANA

PAPER – IV

Pharmaco therapeutics of Rasayana & Vajikarana

Q.P. Code: 4252

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

LONG ESSAY QUESTIONS:

Marks

2 X 20 = 40

1. Write long essay including below:
 - a) Formulations, indications & uses of vrishyabasti, vajikaranabasti & yapanabasti. (10)
 - b) Definition, scope & understanding of shukrapravartaka, shukrashodhana & shukrastambhaka drugs. (5)
 - c) Ingredients, properties, indications & phalashruti of vidaryadi Ghrita. (5)
2. Write long essay including below
 - a) Neuro-psycho pharmacology of Rasayana drugs. (5)
 - b) Pharmacology of suvarna & Rajata. (5)
 - c) Details of Pathya & Apathya in relation to shukradhatu (4)
 - d) Uses of vasantakusumakara rasa. (6)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write short essay on shilajatu Rasayana. (10)
4. Write short essay on Aakarakarabhadi vati. (10)
5. Write short essay on shrigopala taila. (10)
6. Write short essay on pharmacology of Jivanti. (10)
7. Write short essay on Gokshura. (10)
8. Write short essay on uses of Kapikacchu. (10)

Verified

S. S. Srinivasan

*Dr. Srinivasan
21/08/20 (2:15 pm)*

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MS AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SWASTHAVRITTA

PAPER – I

Vaiyaktika Swasthavritta & Sadvritta

Q.P. Code: 4253

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

LONG ESSAY QUESTIONS:

Marks

2 X 20 = 40

1. Define Dinacharya, explain dinacharya related to Nasa (Nose). Write in detail about dinacharya benefits and its relevance. (4+6+10)
2. Define viruddhahara, explain the concept of satmya, okasatmya, pathya ahara. Write in detail about classification of viruddha ahara with examples. (4+6+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Define vega, Dharaneeya vega. Explain in detail about. Any five Adharaneeya vega Lakshana and their chikitsa. (2+3+5)
4. Explain ritu viparyaya its causes & effect on health. (3+3+4)
5. Define dietetics. Write principles of dietetics. Critically analyze the Aharavarga. (2+3+5)
6. Define sadvritta and achara rasayana. Explain sadvritta principals in prevention of mental disorders. (2+3+5)
7. Define rasayana, write classification of rasayana dravya write in detail about rasayana procedure for swastha. (2+3+5)
8. Define health spectrum & ice berg phenomenon. Write in detail about genetics in ayurveda. (2+3+5)

Vinipid e jund correct.

18/08/2020 2.15 pm.

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MS AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SWASTHAVRITTA

PAPER – II

Samajika Swasthavritta (Community Health)

Q.P. Code: 4254

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Define refuse sewage, write methods of disposal of wastes, write in detail about sewage disposal in sewerred and unsewerred area.	(4+6+10)
2. Define <u>life style</u> & non-communicable diseases with examples. Explain in detail about concept of community health.	(10+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Define vaccine and immunoglobulins. Explain national immunization schedule.	(2+3+5)
4. Define demography, demography cycle write about family welfare programmes.	(2+3+5)
5. Define medical sociology & health tourism. Write about ayurvedic resort management – panchakarma & allied procedures in it.	(2+3+5)
6. Define geriatrics. Write old age problems in the community. Role of ayurveda in minimizing geriatric problems.	(2+3+5)
7. Define disinfection. Write types of disinfection. Explain disinfection methods in ayurveda.	(2+3+5)
8. Define disease, web of causation. Write in detail about causation of diseases in ayurveda.	(2+3+5)

Verified & found correct

DR. S. S. Tonni
19/8/2020
At 2-10pm

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SWASTHAVRITTA

PAPER – III

Samkramaka Roga Pratishedha & Swasthyaprashasanam

Q.P. Code: 4255

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Define Epidemiology, what are epidemiological traits. Explain epidemiology of malaria	(4+6+10)
2. Define Sankramika rogas, write about sexually transmitted diseases (STD) and their control measures.	(5+15)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Write about health administration in state and central level	(10)
4. Explain in detail about disaster management methods	
5. Define vital statistics. Write various methods of collection of data and its interpretation.	(4+6)
6. Define host defense mechanism and write about control of epidemics in general.	(5+5)
7. Define Isolation. Write a note on Bio-medical waste (BMW) management.	(4+6)
8. Explain AYUSH system, write a note on role of Ayurveda in strengthening primary health care.	(5+5)

Vinayak E. Janna Coored. 20/08/2020.

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SWASTHAVRITTA

PAPER – IV

Yoga & Nisargopachar

Q.P. Code: 4256

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define Pranayama. Write Nadishudhi pranayama lakshana, explain in detail about Astakumbaka (2+2+16)
2. Enumerate Shatkriyas. Explain dhouti. Write in detail about kaphalabhati which is explained in Gheranda samhita. (4+6+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Explain Karmayoga, Jnanayoga and Bhaktiyoga. Write yoga siddhikara bhava and Bhadaka bhava (2+2+2+2+2)
4. Define Upavasa chikitsa and write its types, write therapeutic utility of upavasa in detail. (5+5)
5. Explain Satyabudhhi and Moksha sadhika buddhi. Write in detail about moksha (2+2+6)
6. Write therapeutic effect of yogic practice in diabetes. (10)
7. Explain Antaranga yoga and Bahiranga yoga. (5+5)
8. Write about concepts of Acupuncture and megnetotherapy (5+5)

Sum & Vinit. and correct.

@ JH

22/08/2020. 2.15pm

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

KAYACHIKITSA

PAPER – II

Samanya Roga Chikitsa

Q.P. Code: 4222

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Explain aetiopathogenesis and management of PRAMEHA along with diabetes mellitus.	(11+9)
2. Describe pranavaha srotodusti karana, lakshana, chikitsa and management of tamakashwasa along with Bronchial Asthma.	(3+3+3+6+5)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Describe samanya chikitsakrama in krimi roga along with management of Helmenthiasis.	(5+5)
4. Write management of Amavata and Rheumatoid Arthritis.	(5+5)
5. Explain treatments of ajeerna roga and mention the types of the same.	(8+2)
6. Explain treatment of mutrakricchra and urinary tract infection.	(6+4)
7. Write nidana and chikiysa of sthoulya roga.	(2+8)
8. Write investigations, clinical features and management of hypertension.	(2+3+5)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MS AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SHALYATANTRA

PAPER – II

Vishishta Shalya Vigyan (Shalyatantra Specialty)

Q.P. Code: 4226

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Define vrana, write its classification and explain shasti upakrama of vrana.	(2+6+12)
2. Explain mutrashmari & its surgical line of treatment.	(10+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Explain about dagdha vrana, its types, clinical features & management.	(2+4+4)
4. Describe Asthibhagna mention its types and write its management according Acharya sushata.	(1+3+6)
5. Define haematuria. Enlist the causes & mention the differential diagnosis.	(2+3+5)
6. Describe benign prostatic hyperplasia & its surgical management.	(5+5)
7. Describe yogya vidhi & its practical application in surgery.	(5+5)
8. Write about gangrene & its management.	(5+5)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)**Time: 3 Hours****Max. Marks: 100****KAUMARBHRITYA****PAPER – II***Navajata Shishu Vigyan Evum Poshana***Q.P. Code: 4230**

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. What is meant by “Pranapratyagamana”? Explain the resuscitation measures schematically in a newborn.	(3+17)
2. Who is called a preterm baby? Write the management schedule of preterm baby.	(2+18)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. What is meant by “Orifice counting”? Explain the procedure with their importance.	(2+8)
4. Explain the clinical features of diseases occurring due to improper cutting of umbilical cord and their management.	(10)
5. Write a short essay on birth injuries, the classification and management of any two common birth injuries.	(5+5)
6. What is meant by term baby? Differentiating the preterm – term and post term, explain the management of post term babies.	(1+6+3)
7. Explain care of newborn according to Ayurveda and modern science.	(5+5)
8. What are the common anatomical anomalies of the Gastro-Intestinal seen in new born and how they are diagnosed and managed?	(3+7)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

PANCHAKARMA

PAPER – II

Vamana and Virechana Karma

Q.P. Code: 4234

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define Vamana. Explain the role of vamana in Promotion of health, prevention and treatment of disease.

(5+5+5+5)

2. Define Virechana. Explain virechanavidhi in detail.

(5+15)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write a note on Shuddhi nirnaya.

4. Explain “_____pakshagathevirechanam”.

5. Write a note on “Scope of vamana and virechana in jwara chikitsa”.

6. Explain vamana karmukata.

7. Method of preparation and indications of Icchabedi rasa.

8. Complication of vamana and virechana karma and their management.

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

AGADA TANTRA EVUM VIDHI VAIDYAKA

PAPER – II

Visha Chikitsa Vigyan (Management of Poisoning)

Q.P. Code: 4238

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Write general principals of treatment of poisoning and describe in detail about route wise treatment of unabsorbed poisons.	(10+10)
2. Write signs & symptoms of acute & chronic lead poisoning, its diagnosis, treatment, autopsy findings and medico legal importance.	(3+6+2+5+2+2)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Describe mechanism of action, signs & symptoms and general treatment of “alkali” poisoning.	(2+4+4)
4. Write active principles, treatment, postmortem findings & medico legal importance of Dhatura.	(2+3+2+3)
5. Define “Chelating Agents” & write dosages and indications of BAL, EDTA & penicillamine.	(1+3+3+3)
6. Describe postmortem findings in cases of poisoning and write extra corporeal techniques of removal of poisons.	(5+5)
7. Describe treatment of “Garvisha” and “Dooshivisha”.	(5+5)
8. Describe treatment of “Rabies”.	(10)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MS AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SHALAKYATANTRA

PAPER – II

Shalakya-Shiro-Nasa-Karna-Kantha roga

Q.P. Code: 4246

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Critical analysis on Nidanapanchaka and samanya chikitsa of nasa and karna rogas. (10+10)
2. Define deafness, explain in detail about causes, types, investigations and management. (5+5+5+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write in detail about nidana, samprapti, laxanas and chikitsa of Ardhavabedaka. (1+1+2+2+4)
4. Write in detail about etiology, types, clinical features and treatment of CSOM. (2+2+2+4)
5. Enlist Ashtavidhashastrakarma (eight types of surgical procedures) and application of Chaturvidha chikitsa in nasa arsha. (2+8)
6. Write the causes of dysphagia. Explain in detail about oro-pharyngeal examination. (5+5)
7. Write recent advanced techniques for diagnosing the nose and throat disorders. (5+5)
8. Swarabheda and its management with modern correlation. (5+5)

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MD AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

RASAYANA & VAJIKARANA

PAPER – II

Concepts of Apatya & Susantaana

Q.P. Code: 4250

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Write long essay including below:
 - a) Etio-pathogenesis, diagnosis & management of oligospermia. (11)
 - b) Sperm function tests, semen & cervical mucus interaction, post coital test. (6)
 - c) Knowledge of cystoscopy. (1)
 - d) Scrotal scan & Doppler. (2)

2. Write long essay including below
 - a) Etymology, derivation & description of vandhya, vandhyaa & apatya. (3)
 - b) Importance & essentials of fertility. (7)
 - c) Description garbhasambhavasamagri, garbhadana paricharya & garbhutpatti. (10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write short essay on Pyospermia.
4. Write short essay on Karyotyping.
5. Write short essay on Ejaculatory disturbance.
6. Write short essay on Dal - castele's syndrome.
7. Write short essay an Applied aspects of Vajikarna.
8. Write short essay an Klinefelters syndrome.

POST-GRADUATE DEGREE EXAMINATION – AUGUST 2020
MS AYURVEDA PART – II (FINAL YEAR)

Time: 3 Hours

Max. Marks: 100

SWASTHAVRITTA

PAPER – II

Samajika Swasthavritta (Community Health)

Q.P. Code: 4254

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define refuse sewage, write methods of disposal of wastes, write in detail about sewage disposal in sewerred and unsewerred area. (4+6+10)
2. Define life style & non-communicable diseases with examples. Explain in detail about concept of community health. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Define vaccine and immunoglobulins. Explain national immunization schedule. (2+3+5)
4. Define demography, demography cycle write about family welfare programmes. (2+3+5)
5. Define medical sociology & health tourism. Write about ayurvedic resort management – panchakarma & allied procedures in it. (2+3+5)
6. Define geriatrics. Write old age problems in the community. Role of ayurveda in minimizing geriatric problems. (2+3+5)
7. Define disinfection. Write types of disinfection. Explain disinfection methods in ayurveda. (2+3+5)
8. Define disease, web of causation. Write in detail about causation of diseases in ayurveda. (2+3+5)
