

**PAPER –I**

**Part – A**

**Point 1:**

**Definition of Shalya, Shalya Tantra and its importance. Introduction to Shalya Tantra**

**10 MARKS**

1. Write Definition of Shalya, Shalya Tantra and its importance.
2. What is Shalya Tantra? Historical background and progress made.
3. Define Shalya Tantra and describe the cause of its fall and methods for its upliftment.

**05 MARKS**

1. Write Definition of Shalya
2. Shalya Tantra and its importance.
3. Historical background and progress made.
4. Describe the causes of fall of Shalya Tantra
5. Describe the methods for upliftment of Shalya Tantra

**02 MARKS**

1. Write names of commentary written on Shushruta Samhita.
2. Writes the names of co-students of Acharya Sushruta.

**Point 2:**

**Description of Yantra, Shastra, Anushastra: Definition, number, types, uses, Dosha, Guna, Karma. Relevant modern instruments.**

**10 MARKS**

1. Give description of Yantra,,: Definition, number, types, uses, and names of relevant modern instruments.
2. Give description of Dosha, Guna, Karma of Yantras
3. Give description of Shashtras,,: Definition, number, types, uses, and names of relevant modern instruments.
4. Give description of Dosha, Guna, Karma of Shastras and dhara Santana\
5. Give description of Upanyantra and Anushashtras,,: Definition, number, types, uses, and names of relevant modern instruments.

**05 MARKS**

1. Definition of Yantra and enlist its guna and dosha.
2. Definition of Shastra and enlist its guna and dosha.
3. Short note on upayantras
4. Short note on Anushashtrs
5. Short note on yantra karmas

**02 MARKS**

1. Yantra gunas
2. Yantra doshas
3. Write types of yantras and their numbers
4. Write types of yantras and their standard sizes
5. Names of nadi yantras
6. Draw and describe any one swastika yantra
7. Draw and describe sadamnsha yantra
8. Draw and describe taal yantra
9. Draw and describe any one nadi yantra
10. Draw and describe any Shalaka yantra
11. Draw and describe any one upayantra yantra
12. Names of shashtras
13. Shashtra gunas
14. Shastra doshas
15. Write types of shashtras according to there karma
16. Write holding various shashtra
17. Draw and describe any one shashtra
18. Payna vidhhi
19. Shashtra kosha
20. Dhara Santana
21. Dhara parikha

**Point 3:**

**Nirjantukarana / Sterilization: Methods, types and its role in surgical practice.**

**10 MARKS**

1. Define Nirjantukarana / Sterilization: Methods, types and its role in surgical practice.
2. Define and describe with figures: Autoclaving

**05 MARKS**

1. Draw a table showing various methods of sterilization and their indications.

2. Short note on fumigation
3. Short notes on methods of sterilization of sharp instruments
4. Short note on autoclaving

**02 MARKS**

1. Boiling for sterilization, discuss.
2. Define sterilization
3. Define autoclaving.
4. Type labeling for autoclaving.
5. Write prescribed time period for various materials for autoclaving
6. Chemical sterilization, short note.

**Point-4 Sangyahan / Anaesthesia: Definition and Types.**

**10 MARKS-**

1. Definition, techniques, indication, contraindication and complications of Local Anesthesia.
2. Definition, techniques, indication, contraindication and complications of regional Anesthesia
3. Describe general Anesthesia and its complications along with management
4. Define the Shlok and describe the classification of Anesthesia prak karmana...

**5 MARKS-**

1. Anesthetic drugs
2. Indication and Contraindication of local Anesthesia
3. Indication and Contraindication of spinal Anesthesia
4. Indication and Contraindication of general Anesthesia
5. Spinal Anesthesia-Complications and its management
6. Complications and its management of general Anesthesia

**2 MARKS-**

1. Xylocain- uses and dose
2. Lignocain- uses and dose
3. Indication of Spinal Anesthesia
4. Complications of general anesthesia
5. Pre operative Anesthetic Assessment
6. Enlisted the Equipments needed during Anesthesia
7. Complications of spinal Anesthesia

**Point 5 Trividha Karma – Purva Karma, Pradhana Karma and Paschat Karma.**

10 MARKS-

1. Explain 'Trividh Karma' Ayurved as well Modern point of view
2. Elaborate Purva Karma, Pradhan Karma and Paschat Karma

5 MARKS-

1. Short note: Purva Karma
2. Short note: Pashchat Karma
3. Pre operative procedures
4. Pre operative procedures in patient of Fistula
5. Pre operative procedures in patient of Appendicitis

2 MARKS-

1. Enlisted the name of diseases in which Sushruta has mentioned NBM before surgery
2. Purva Karma in Jalaukavacharan
3. Purva Karma in Agnikarma

**Point 6 Ashtavidha Shastra Karma - Surgical procedures.**

10 MARKS-

1. 'Ashta Viddha sashtra Karma' Ayurved and Modern point of view
2. Describe the comparison of Ashta viddha sashtra karma according to ayurved and modern
3. Explain Sivan Krama
4. Sivan Karma and their types and using material according to ayurved and Modern point of view

5 MARKS-

1. Describe sashtra karma according to Acharya Vagbhata
2. Enlisted sashtra Karma according to different Acharyas
3. Explain sashtra Karma according to Acharya Charka
4. Give Types of suchi and sivan karma with

2 MARKS-

1. What is Chhedan Karma
2. What is Vedhan Karma
3. What is Bhedan Karma
4. Absorbable suture material
5. Non-absorbable suture material
6. Different between traumatic and atraumatic needle

**Point-7 Yogya - Experimental Surgery.**

10 MARKS-

1. Explain yogya vidhi and its importance
2. Importance of yogya vidhi in present era
3. Explain Yogya vidhi with Asta vidh Shastra Karma

5 MARKS

1. Write short note- Yogya Vidhi
2. Explain Yogya vidhi
3. Describe Experimental surgery

2 MARKS

1. What is Yogya vidhi
2. What is Vishikhanupraves

**Point -8 Marma: Nirukti, types, description and importance.**

10 MARKS-

1. Marma: Nirukti, types, description and importance
2. Importance of Marma during surgery in present era

5 MARKS-

1. Describe Sthana and viddh lakshan of sadhyo pranahara Marma
2. Describe Sthana and viddh lakshan of Kalantar pranahara Marma
3. Describe Sthana and viddh lakshan of Vaikalyakar Marma
4. Describe Sthana and viddh lakshan of Rujakar Marma
5. Numbers and classifications of Marma
6. Clinical application of concepts of Marma
7. Importance of Marma

2 MARKS-

1. Numbers of sandhi marma and enlisted the Marma included in it
2. Describe Sthana and viddh lakshan of Vishalyaghna Marma
3. Adhipati Marma- sthan and Viddh lakshan
4. Gud Marma- sthan and viddh lakshan
5. Basti Marma- sthan and viddh lakshan
6. Nabhi Marma- sthan and viddh lakshan

7. sthapani Marma- sthan and viddh lakshan
8. apang Marma- sthan and viddh lakshan
9. stan-rohit Marma- sthan and viddh lakshan
10. panchbhautikatva of Marma

**Point 9:**

**Kshara and Kshara Karma:**

**i. Nirukti, Pradhanyata, Guna, Dosha, Karma, Prakara, Yogya, Ayogya, Procedure, Upadrava and Chikitsa.**

**ii. Kshara nirmana vidhi, knowledge of Kshara Varti, Taila and Pichu.**

**iii. Kshara Sutra – Preparation, Indications, Contraindications and Method of application, Complications and their Management.**

**10 Marks**

1. Describe Kshara Karma Chikitsa
2. Explain of Kshara Sutra – Preparation, Indications, Contraindications and Method of application, Complications and their Management.
3. Explain the steps of Kshara Sutra application in Fistula-in-ano (Bhagandar)
4. Explain the steps of Kshara Sutra application in Haemorrhoids (Arsha)
5. Describe Kshara Nirukti, Pradhanta, Kshara Guna, Dosha, Prakar Yogya, Ayogya.
6. Describe importance of Kshara and Kshara Nirman vidhi.
7. Explain Samyaka, Hina and Ati Kshara Dagdha Laxan and its treatment
8. Preparation and Standardization of Kshara Sutra. Pharmacological action of Kshara Sutra Ingredients.

**05 Marks**

1. Describe Kshara prakar and its yogya-ayogya
2. Describe Preparation of Kshara
3. Short note: Kshara guna dosha
4. Explain Pratisarniya Kshara
5. Explain Paniya Kshara
6. Kshara Sutra Preparation
7. Describe Indications, Contraindications and Complications of Kshara Sutra
8. Explain Application of Kshra Sutra according to diseases.
9. Explain Samyaka Kshara Dagdha Laxan and its treatment
10. Explain Hina Kshara Dagdha Laxan and its treatment
11. Explain Ati Kshara Dagdha Laxan and its treatment

**02 Marks**

1. Kshara Guna
2. Kshara Dosha
3. Kshara Pradhanya
4. Paniya Kshara
5. Pratisarniya Kshara
6. Indications and Contraindications of Kshara Sutra
7. Application of Kshra Sutra
8. Kshara Karma
9. Samyaka Kshara Dagdha
10. Hina Kshara Dagdha
11. Ati Kshara Dagdha
12. Kshara Varti

**Point 10:**

**Agnikarma: Mahatva, Upakarana, Vidhi, Akrti bheda, Yogya, Ayogya and Upadrava Chikitsa.**

**10 Marks**

1. Explain Agnikarma
2. Describe importance of Agnikarma.
3. Types of Pramada dagdha and management of Pramad dagdhas.

**05 Marks**

1. Explain Dahanopakarans and discuss its nature of application
2. Agnikarma Vidhi and updrvas.
3. Explain Yogya, Ayogya and Upadrava of Agnikarma
4. Mode of Action of Agnikarma
5. Explain Lakshans : Twak dagdha, mamsa dagdha, Sira dagdha, Snayu dagdha, Asthi dagdha and Sandhi dagdha
6. Describe the difference between Agnikarma and Dagdha
7. Describe Emergency treatment of Dagdha in detail
8. Dagdha vrana Chikitsa
9. Pramada dagdha

10. Dhumophata

**02 Marks**

1. Short note: Agnikarma
2. Dahanopakarans
3. Yogya- Ayogya of Agnikarma
4. Twak dagdha
5. Mamsa dagdha
6. Sira-Snayu dagdha
7. Asthi -Sandhi dagdha
8. Plustha dagdha
9. Durdagdha
10. Samyaka dagdha
11. Ati dagdha
12. Dravyas used for agnikarma in mansagat roga
13. How Agnikarma is superior in anushastra karma

**Point 11:**

**Raktamokshana: Mahatva, Prakara - Siravyadha, Pracchanna, Shringa, Alabu, Jaloukavacharana – Yogya, Ayogya, Procedure, Upadrava and Chikitsa.**

**10 Marks**

1. Explain sloka:  
अवगाढे जलौका स्यात् प्रच्छन्नं पिण्डिते हितम्।  
सिरा अङ्गव्यापके रक्ते श्रुङ्गालाबू त्वचि स्थिते॥
2. Explain Quotation  
त्वक्दोषाः ग्रन्थयः शोफा रोगाः शोणितजाच्च ये।  
रक्तमोक्षणशीलानां न भवन्ति कदाचन॥
3. Importance of Raktamokshana
4. Describe Jaloukavacharana
5. Explain Shalyaardha Chikitsa
6. Explain Siravyadha- Yogya, Ayogya, Procedure, Upadrava and Chikitsa
7. Explain Siravyadha, Pracchanna, Shringa, Alabu, Jaloukavacharana

**05 Marks**



1. Describe Raktamokshana Mahatva and Prakara
2. Method of Jaloukavacharanam
3. Raktamokshana Upadrava and Chikitsa
4. Method of Siravyadha and yogya-ayogya
5. Explain Siravyadha according to disease.
6. Describe Dustavedha
7. Explain types of Savisha Jalouka
8. Explain types of Nirvisha Jalouka

**02 Marks**

1. Raktamokshana Mahatva
2. Raktamokshana Prakara
3. Siravyadha
4. Pracchanna
5. Shringa
6. Alabu
7. Jaloukavacharanam
8. Indication of Raktamokshana
9. Jalouka yogya
10. Savisha Jalouka
11. Nirvisha Jalouka
12. Indramada

**Point-12 Bandha Vidhi – Prayojana, Dravya, Indications, Contraindications, Prakara, Upadrava, Pichu, Plota, Kavalika and Vikeshika.**

**10 MARKS-**

1. describe bandhan vidhi and types of bandhan
2. give name of bandhan dravya and types of bandhana

**5 MARKS-**

1. doshanusar bandhan vidhi
2. enlist name of different bandhan according to acharya vagbhat
3. indication and contraindication of bandhan
4. principle and types of bandaging according to modern
5. bandhan guna
6. slok- kusthinam agnidagdhanam..... gudpake ch darune

**2 MARKS-**

1. material for bandaging according to ayurved and modern

2. definition of pichu and plota
3. definition of kavalika and vikeshika

**Point-13 Pranasta Shalya and Nirharana Upaya.**

10 MARKS-

1. define Pranasta shalya its symptoms and nirharan upayas
2. Shalya nirukti, types and shalya gati and symptoms of Pranasta shalya
3. Give tpes of Pranasta shalya and describe shalya-apnayniya

5 MARKS-

1. Short note- Shalyaapnayniya
2. Short note- Pranasta shalya
3. Identification and management of foreinbody (Pranasta shalya)

2 MARKS-

1. Kanthgat shalya nirharan techniques
2. Shiragat shalya nirharan upay
3. Koshtha gat shalya lakshan
4. Sroto gat shalya lakshan
5. Enlist types of 'shalya gati'
6. Tvak gat shalya lakshan
7. Dhamni gat shalya lakshan

**Point-14 Fluid, Electrolyte, Acid Base Balance and Nutrition:**

10 MARKS-

1. Introduction of physiology of fluids and electrolytes disturbance
2. Various replacement fluids in surgery their mode of administration and complications
3. Dehydration and overhydration- clinical features and management

5 MARKS-

1. Dehydration- clinical features and management
2. Overhydration- clinical features and management
3. Hypernatramia- clinical features and management
4. Hyponatramia- clinical features and management
5. Hyperkalamia- clinical features and management
6. Hypokalamia- clinical features and management

7. Metabolic acidosis- clinical features and management
8. Metabolic alkalosis- clinical features and management
9. Respiratory acidosis- clinical features and management
10. Respiratory alkalosis- clinical features and management
11. Electrolyte changes in pyloric stenosis- symptoms and treatment
12. Electrolyte changes in intestinal obstruction-symptoms and treatment

2 MARKS-

1. Hypercalcemia
2. Hypocalcemia
3. Management of dehydration
4. Management of Overhydration
5. Peranal nutrition

**Point 15:**

**Rakta Mahatwa, Raktasrava / Haemorrhage: Prakara and Lakshana.**

**i. Raktastambhana – Haemostasis.**

**ii. Blood Transfusion –Blood groups, Compatibility, Indications, Contraindications and Complications with Management.**

**iii. Component therapy.**

**10 Marks**

1. Explain: Raktam jiv iti stithi
2. Describe Raktadana and its Complications
3. Explain in details the types, symptoms and general treatment of Haemorrhage
4. Explain: Blood Transfusion –Blood groups, Compatibility, Indications, Contraindications and Complications with Management.

**05 Marks**

1. Describe Dehsya Rudhiram Mulam
2. Raktasrava / Haemorrhage: Prakara and Lakshana.
3. Raktadana ( Blood Transfusion) and Complications
4. Raktastambhana – Haemostasis
5. Complications of Raktasrava (Haemorrhage)
6. Describe etiology and general treatment of Haemorrhage
7. Explain Blood groups with Rh factor

**02 Marks**

1. Types of Haemorrhage

2. Raktastambhana upaya
3. Raktadana ( Blood Transfusion)
4. Ati Raktasrava
5. Blood Groups
6. Indications and Contraindications of Blood Transfusion
7. Brief the formation of Rakta According to Sushruta

**Point 16:**

**Antibiotics, analgesics, anti-inflammatory and emergency drugs in surgical practice.**

**10 Marks**

1. Explain in details any ten emergency drugs which is used in Surgical Practice
2. Explain MOA, Indications and Contraindication of Cephalosporin groups
3. Explain any Ten Anti inflammatory and analgesic drugs with MOA, Indication and Contraindication

**05 Marks**

1. Write note on Cephalosporin groups
2. Write NSAID drugs

**02 Marks**

1. Write drug name of Cephalosporin groups
2. Write drug name of analgesics
3. Write drug name of anti-inflammatory

**Part- B**

**Point-1**

**Shat Kriyakala in surgical practice.**

**10 Marks**

1. Explain 'Shat vidh kriyakal' according to acharya Sushruta
2. Importance of 'shat kriya kal' in surgical practice

**5 Marks**

1. Short note- Sthana sanshraya
2. Explain Prasar avstha
3. Describe sanchay avastha
4. Slok- sanchay ch prakopam... veti doshanam sa bhavet bhisak

**2 Marks**

1. Vyakti avastha
2. Bheda avastha

**Point-2**

**Nirukti, Nidana, Samprapti, Prakara, Lakshana, Sadhya-asadhyata, Upadrava and Chikitsa of the following disorders.**

**10 Marks**

1. Different avstha of and symptoms Vran shotha and its management
2. Explain vran shotha avstha and give short note on 'Inflammation'
3. Definition of Vidradhi and its type, symptoms and management according to sushruta
4. Definition of Granthi and its types, symptoms and management

**5 Marks**

1. Short note- Vranshofa
2. Short note- Vidradhi
3. Explain types and symptoms of Arbuda
4. Short note- Nadi vrana
5. Short note- Shock
6. Definition types and management of shock
7. Definition and types of Gangrene
8. Give differentiation between Keloid and hypertrophic scar

**2 Marks**

1. Definition and common symptoms of Abscess
2. Definition and common symptoms of Boils
3. Definition and enlist the type of Shock
4. Enlist types of Granthi
5. Enlist types of Arbuda
6. Sebaceous cyst- short note
7. Short note- Vran granthi

**Point-3**

**Vrana – Nirukti and Prakara**

**10 Marks**

1. Explain Nirukti of Vrana ,Types and symptoms of Vrana, and describe the phages of wound healing
2. Definition of Vrana, types and their symptoms and sadhya-asadhyata of Vrana
3. Sadhyo vrana- nidana, prakara, Lkshana, updrava and chikitsa
4. Definition, types, symptoms and management of Ulcer
5. Dagdha vrana types and symptoms and chikitsa, describe burn and its management
6. Common Treatment of Vrana and describe shashti upakram

**5 Marks**

1. Nij vrana and agantuj vrana- samprapti evam lakshan
2. Dagdha vrana- prakara lakshna and chikitsa
3. Management of bites and stings
4. Pramehpidka-prakara and lakshana and management
5. Diabetic carbuncle- short note
6. Vrana pariksha
7. Frost bite- short note
8. Electrical burn-short note
9. Snake bite symptoms and treatment

**2 Marks**

1. What is Vranitagara
2. Explain Rakshakarma
3. Pathya-apathya of vranit
4. Give Vrana updrava
5. What is Dushta Vrana
6. What is Suddha vrana

7. Definition of Ruhyaman vrana
8. Definition of Roodh vrana
9. What is Vrana vastu

**Point- 4**

**Twak Vikara - Nidana, Samprapti, Lakshana and Chikitsa of Chippa – Paronychia, Kadara – Corn and Kshudra rogas.**

**10 Marks**

1. Numbers of ksudra roga according to sushruta and describe any 10 kshudra roga and their management
2. Causes, symptoms, and treatment of chippa and describe paronychia

**5 Marks**

1. Short note- Valmik
2. Causes, symptoms and treatment of Paaddaari
3. Describe Kadar according to ayurved and modern aspect

**2 Marks**

1. What is Tilakalak
2. What is Mashak
3. What is Vipadika
4. What is Vicharchika
5. What is Jatumani
6. What is Kunakh and chipp

**Point- 5**

**Manya Vikara – Nidana, Samprapti, Lakshana and Chikitsa of Galaganda – Goitre, Gandamala, Apachi –Lymphadenitis, Pashanagardhabha – diseases of parotid gland.**

**10 Marks**

1. Galaganda- definition, causes, symptoms and management
2. Describe galganda according to ayurved and modern aspect

**5 MARKS-**

1. Short note- galganda
2. Describe- Apachi
3. Short note- Pashanagardabha

4. Management of galganda
5. Types and symptoms of Galaganda
6. Definition, types and symptoms of gandmaala
7. Types symptoms and management of gandmaala
8. Nirukti, nidana and lakshana of Apachi
9. Treatment of Apachi

**2 MARKS-**

1. Enlist types of Galaganda
2. Symptoms of modoj galganda
3. Symptoms of Apachi
4. Nirukti and causes of Apachi
5. Definition and treatment of Pashangardabha

**Point- 6**

**Sira Vikara - Venous disorders – Superficial and Deep venous thrombosis, Haemangioma, Varicose veins - Diagnosis and their Management.**

**10 MARKS-**

1. Definition, causes, symptoms, clinical examination and management of Varicose vein
2. Give full form of DVT and describe the disease
3. Definition, causes, clinical features, clinical signs and management of deep vein thrombosis

**5 MARKS-**

1. Etiological factors and symptoms of varicose vein
2. Clinical examination and conservative treatment of varicose vein
3. Describe the trendelenburg's test
4. Short note- Hemangioma

**2 MARKS-**

1. Etiological factors of Varicose vein
2. Clinical examination of Varicose vein
3. Homan's sign for DVT
4. Causes of Deep vein thrombosis
5. Differential diagnosis of DVT



**Point-7**

**Dhamani Vikara - Arterial disorders – Nidana, Samprapti, Lakshana and Chikitsa of Aneurysm, Buerger's disease, Atherosclerosis, Raynaud's disease.**

**5 MARKS-**

1. Short note- Aneurysm
2. Short note- Burger's disease
3. Short note- Atherosclerosis
4. Short note- Raynaud's disease

**2 MARKS**

1. What is Aneurysm
2. What is Burger's disease
3. What is Atherosclerosis
4. What is Raynaud's disease

**Point- 8**

**Snayu Vikara -Snayu Vikara - Diseases of tendons and ligaments – Tennis elbow, Ganglion and their Management.**

**2 MARKS-**

1. Causes and Symptoms of Tennis elbow
2. Site and symptoms of Ganglion
3. Management of Ganglion

**Point-9**

**Care of AIDS - HIV and hepatitis infected patients.**

1. Surgical Care of HIV patient
2. Surgical Care of HBsAg positive patient