

14. SHALYA TANTRA - SAMANYA

PAPER - I Shalya Siddhanta – Fundamentals of Surgery

100 Marks

1. Sushruta's contributions in surgical concepts and practices.
2. Knowledge of Dosha, Dhatu and Mala Vigyan and their importance in surgical diseases.
3. Significance and importance of Rakta as the Chaturth Dosha.
4. Yantras and Shastras – Surgical Instruments - Ancient and recent advances.
5. Trividha Karma – Purva, Pradhana and Pashchat Karma and its Importance.
6. Asepsis and Antisepsis.
7. Nirjantukarana – Sterilization – Various methods for surgical equipments, laparoscopes, linen and Operation theatre.
8. Surgical infections – Sepsis, Tetanus and Gas gangrene.
9. Care of patients suffering from Hepatitis, HIV-AIDS, STD and other associated infectious diseases.
10. Ashtavidha Shashtra Karma – Critical knowledge and their application in surgical practice.
11. Suturing materials, appropriate use of sutures, drains, prosthetic, grafts and surgical implants.
12. Concept of Marma and their clinical application.
13. Shock - Its varieties and management.
14. Raktasrava / Haemorrhage – Types, Clinical features and Management.
15. Concept of Raktastambhana –Haemostasis.
16. Vranasopha – Inflammation and Vidradhi - Abscess
17. Granthi – Cyst and Arbuda – Benign and malignant Neoplasm – Concept of Oncogenesis and genetics of cancer.
18. Gulma and Udara Roga.
19. Kshudra Roga.
20. Fluid, electrolyte, Acid Base Balance and Nutrition
 - i. Introduction of physiology of fluids and electrolytes.
 - ii. Dehydration and over hydration.
 - iii. Specific electrolyte loss, Acidosis, Alkalosis, Symptomatology and Management.
 - iv. Electrolyte changes in specific surgical conditions and their management.
 - v. Plasma volume expanders and their use in surgical condition.
 - vi. Various replacement fluids in surgery, mode of administration and complications.
 - vii. Nutrition – Indications, types, mode of administration and complications.
21. Blood Transfusion – Blood groups, compatibility, Indications, Contraindications and complications with management.
22. Knowledge of antibiotics, analgesics, anti-inflammatory and emergency drugs in surgical practice.

PAPER – II Vishishta Shalya Vigyana - Shalya Tantra Speciality

100 Marks

1. Yogya Vidhi - Practical and Experimental training
 - i. Practice of surgical procedures on different models.
 - ii. Training of Laproscopic and Endoscopic procedures.
2. Vrana – Wound management
 - i. Management of Nija Vrana, Agantuja Vrana, Dushta Vrana and Nadi Vrana.
 - ii. Vrana Chikitsa – Shasti upakramas, Pathya-apathya .
 - iii. Types and Management of Dagdha Vrana - Burns and scalds.
 - iv. Infection of hands and foot, Diabetic wound, Prameha Pidaka – Diabetic carbuncle and its management.
 - v. Management of Pressure ulcers, Venous ulcers and other chronic non-healing ulcers.
 - vi. Gangrene and its management.

3. Mutra Roga – Urological diseases.

- i. Anatomical and physiological knowledge of kidney, ureter, urinary bladder, prostate, seminal vesicles, urethra and penis.
- ii. Investigations of Mutravaha Srotas – Urinary tract.
- iii. Aetiopathogenesis and surgical procedures of Ashmari – Urinary stone diseases.
- iv. Kidney and ureter – Clinical presentation, Investigations and Management of Congenital anomalies, Trauma, Infection, Neoplasm, Hydronephrosis, Hydroureter and Haematuria.
- v. Urinary bladder - Clinical presentation, Investigations and Management of Congenital anomalies, Trauma, Infection, Neoplasm, Diverticulum, Vesicovaginal fistula, Atony, Schistosomiasis, Urinary diversions, Retention of urine – Mutraghata and Mutrakruccha.
- vi. Urethra - Clinical presentation, Investigations and Management of Congenital anomalies – Hypospadias, Epispadias, Posterior urethral valve, Trauma, Infection, and Neoplasm.
- vii. Prostate and seminal vesicles – Benign and malignant enlargement of prostate, Prostatitis, Prostatic abscess and Calculi.
- viii. Penis – Clinical presentation, Investigations and Management of Congenital anomalies, Trauma, Infection, Phimosis, Paraphimosis, Peyronie's disease and Neoplasm.
- ix. Testis and scrotum - Clinical presentation, Investigations and Management of Congenital anomalies, Ectopic testis, Trauma, Infection, Neoplasm, Testicular torsion, Hydrocele, Varicocele, Spermatocele, Chylocele, Pyocele, Haematocele, Epididymal cyst and Fournier's gangrene.
- x. Renal failure – Causes, Diagnosis, Investigations and Management.

4. Asthi roga and Marma Chikitsa - Orthopaedics

- i. Anatomy and physiology of bone.
- ii. Diseases of Asthi / Bone and Sandhi / Joints – Congenital, Degenerative, Infective, Metabolic and Neoplastic Disorders of Bones and Joints.
- iii. Aetiopathogenesis, treatment along with surgical procedures of Bhagna - Fracture, Sandimoksha - Dislocation and bone grafting.
- iv. Diseases of Spine, vertebral column and spinal cord.

PAPER – III Adhunik Shalya Karma - Modern surgery

100 Marks

1. Fundamentals of modern surgery and treatment of surgical disorders including surgical anatomy, physiology and pathology.
2. Diagnosis and Surgical treatment of head and spine injury, thoracic trauma and abdominal trauma. Blast injuries and Management
3. Diagnosis and Surgical management of neck disorders e.g. salivary glands, thyroid, Thyroglossal cyst and Fistula, Branchial cyst and fistula, Cystic hygroma and Lymphadenopathies.
4. Diagnosis and Surgical management of breast diseases, Benign and Malignant breast tumours.
5. Diagnosis and Surgical measures of diseases of Gastrointestinal system -
 - i. Oral cavity - Oral ulcers, Oral cancer, Precancerous conditions, Submucosal fibrosis, Leukoplakia, Cleft lip and palate, Lip tumours, Mucosal cyst, Nasopharyngeal cancer, Tongue ulcer and cancer.
 - ii. Oesophagus - Oesophageal varices, Dysphagia, Neoplasm, Strictures and Gastro oesophageal reflux.
 - iii. Stomach and duodenum –Congenital anomalies, Injuries, Inflammation, Ulcer, Neoplasm, Pyloric stenosis, Acute dilatation, Hiatus hernia and Foreign bodies.
 - iv. Pancreas - Congenital anomalies, Acute and Chronic pancreatitis, Calculi Neoplasm and Cysts of pancreas.

- v. Peritoneum, Omentum, Mesentery, Retroperitoneal Space – Peritonitis, Abscess, Neoplasm, Mesenteric cyst, Torsion of mesentery, Vascular thrombosis, Retroperitoneal cyst and Fibrosis.
- vi. Abdominal mass - Diagnosis and Management.
- vii. Small intestine - Congenital anomalies, Inflammation, Ulcer, Neoplasm, Stenosis, Injuries, Foreign bodies, Diverticuli, Peutz-jeghers syndrome, Chron's disease, Carcinoid tumours, Enteric perforation and Intestinal fistula.
- viii. Large intestine - Congenital anomalies, Inflammation, Ulcer, Neoplasm, Stenosis, Injuries, Foreign bodies, Diverticuli, Faecal fistula, Amoebiasis and Familial polyposis coli.
- ix. Caecum and Vermiform appendix- Appendicitis, Appendicular abscess, Appendicular mass, Perforation, Carcinoid Tumor and other Neoplasm.
- x. Gastrointestinal bleeding – Haemetemesis, Malaena, Haemobilia, Bleeding per anum - Causes, Diagnosis and Management.
- xi. Rectum and anal canal - Diagnosis and Surgical management of Congenital Anomalies, Inflammation, Ulcer, Neoplasm, Stenosis, Prolapse, Haemorrhoids, Fistula-in-ano, Fissure-in-ano, Anorectal Abscess, Incontinence, Injuries, Foreign bodies, Sacrococcygeal Teratomas and Pilonidal sinus .
6. Umbilicus and abdominal wall – Congenital anomalies, Umbilical infections, Sinus, Neoplasm, Abdominal dehiscence, Divarication of recti, Desmoid tumor and Meleney's gangrene.
7. Diagnosis and surgical measures of diseases of Hepatobiliary system -
 - i. Liver – Abscess, Cyst - Hydatid cyst, Primary and Secondary malignant tumours, Portal Hypertension and Budd-Chiari Syndrome.
 - ii. Gall bladder and Bile duct - Congenital anomalies, Acute and Chronic Cholecystitis, Cholelithiasis, Neoplasm, Cholangitis, Stenosis, Choledocholithiasis, Choledochal cyst and Cholangiocarcinoma.
 - iii. Spleen – Splenomegaly and Splenic Injury.
8. Diagnosis and surgical measures for disorders of Artery, Vein, Ligaments, Muscles and Tendons.
9. Diagnosis and surgical management of Hernias – Inguinal, Femoral, Umbilical, Incisional, Abdominal wall and other hernias.
10. Endoscopic procedures - Oesophagogastroduodenoscopy, Sigmoidoscopy and Colonoscopy.
11. Diagnostic and therapeutic laparoscopy.
12. Anaesthesia - Definition, Types, Anesthetic agents, Indications, Contraindications, Procedures, Complications and management.

PAPER –IV Shalya Vangmaya – Shalya literature, Research and Development

1. Thorough study of the Sushruta Samhita including other relevant portions of Brihatrayee and Laghutrayee.
2. Knowledge and importance of Surgical Audit.
3. Medico legal issues – Understanding the implications of acts of omission and commission in practice. Issues regarding Consumer Protection Act, medical profession, national health policy - Implications in a medico-legal case like accidents, assaults etc.
4. Surgical ethics including Informed consent.
5. Knowledge of different type of experimental Surgical Model for Research in Surgery.
6. Sandhana Karma – Plastic reconstructive and cosmetic surgery. Fundamentals of Sandhana Karma –
 - i. Karna Sandhana – Auroplasty
 - ii. Nasa Sandhana – Rhinoplasty
 - iii. Ostasandhana – Cheiloplasty
 - iv. Grafts and Flaps – Techniques and applications.
 - v. Vascular anastomosis and grafts.

7. Anushalya Karma – Parasurgical procedures

- i. Kshara Karma, Kshara Sutra, Agnikarma and Raktamoskhana.

Pattern of Practical examination

100 Marks

- | | |
|--|------------|
| 1. Case record (25) | -10 Marks |
| 2. Short case | -10 Marks |
| 3. Long case | -20 Marks |
| 4. Identification of specimen / radiograph and Instruments | -20 Marks |
| 5. Thesis Presentation | - 20 Marks |
| 6. Viva-voce | -20 Marks |

Reference Books

- | | |
|---|-----------------------------------|
| 1. Sushruta Samhita | |
| 2. Ashtanga Sangraha | |
| 3. Ashtanga Hridaya | |
| 4. Charaka Samhita | |
| 5. The Surgical instruments of the Hindus | - Girindranath Mukhopadhyaya |
| 6. Shalya Tantra Samuchchaya | - Pandit Ramadesh Sharma |
| 7. Shalya Vigyan (Part 1-2) | - Dr. Surendra Kumar Sharma |
| 8. Shalya Samanvaya (Part 1-2) | - Vd. Anantaram Sharma |
| 9. Shalya Pradeepika | - Dr. Mukund Swaroop Verma |
| 10. Sushruti | - Dr. Ram Nath Dwivedi |
| 11. Clinical Shalya Vigyan | - Dr. Akhilanand Sharma |
| 12. Bhagna Chikitsa
Deshpande | - Dr. Prabhakar Janardhan |
| 13. Kshara sutra management in anorectal ailments
and Dr. Kulwant Singh. | - Dr. S.K. Sharma, Dr. K.R.Sharma |
| 14. Anorectal diseases in Ayurveda
Kumar Chowdary. | - Dr. Sizoria and Dr. Praveen |
| 15. Adhunik Shalya Chikitsa Siddhanta | - Dr. Katil Narshingham Udupa |
| 16. Agnikarma Technology Innovation | - Dr. P.D. Gupta |
| 17. Shalya Tantra Ke Siddhant | - Dr. K.K.Takral |
| 18. Recent advances in the management of Arshas /
Kumar | Haemorrhoids - Dr. P. Hemantha |
| 19. Arsha Evum Bhagander Mein sutra Avacharan | - Vd. Kanak Prasad Vyas |
| 20. Recent advances in Kshara Sutra | - Dr. M. Bhaskar Rao |
| 21. Leech application in Ayurveda | - Dr. M. Bhaskar Rao |
| 22. Kshara Sutra | - Dr. S.N.Pathak |
| 23. Shalya Shalakyas Tantra | - Vd. S.G. Joshi |
| 24. Surgical ethics of Ayurveda | - Dr. D.N. Pande |
| 25. Text book of Surgery | - Sabistan |
| 26. Operative Surgery | - Rob and smith |
| 27. Bailey and Love's Short Practice of Surgery
Mann and R.C.G. Russell | - Norman.S. Williams, Charles.V. |
| 28. Fractures and Joint Injuries | - Watson-Jones |
| 29. Text books of Operative Surgery | - Farquharsons' |
| 30. Principles of Surgery | - Schwartz |
| 31. Emergency Surgery | -Hamilton Bailey's |
| 32. Surgical pathology | - Willing Worth |
| 33. Clinical methods in surgery | - S. Das |
| 34. Textbook of Operative Surgery | - S. Das |
| 35. Shalya Vigyan (Sachitra) | - Anantram Sharma |
| 36. Anushastra Karma | - Dr. D.N. Pande |
| 37. Concept of Vrana in Ayurveda | - Dr. Lakshman Singh |
| 38. Significance for Poorva Karma in Surgical Patient | - Dr. Lakshman Singh |

- | | |
|--|---|
| 39. Sangyahan Prakash | - Dr. D.N. Pande |
| 40. A concise Text Book of Surgery | - S. Das |
| 41. A manual on Clinical Surgery | - S. Das |
| 42. A System of Surgical Diagnosis | - T.N. Patel |
| 43. A Practical Guide to Operative Surgery | - S. Das |
| 44. Drugs and Equipment for Anaesthesia | - Arun kumar |
| 45. Manual of Surgical Instruments | - M.M. Kapur |
| 46. Ward Procedures | - Patel Mansukh. B |
| 47. Recent trends in the management of Arshas / Haemorrhoids | - Dr. P. Hemantha Kumar |
| 48. Primary Anaesthesia | - Maurice King |
| 49. Synopsis of Anaesthesia | - Lee |
| 50. Clinical Anatomy/ Surgical Anatomy | - John E. Skandalakis |
| 51. Surgical Instruments of the Hindus | - Girindharnath Mukopadyay |
| 52. Outline of Orthopedics | - John Crawford Adams and David Hamblen. L |
| 53. Outline of Fracture | - John Crawford Adams |
| 54. Recent trends in the management of Bhagandara / Fistula-in-ano | - Dr. P. Hemantha Kumar |
| 55. Principles and Practice of Agnikarma | - Dr. Anand Kumar and Dr. Kanchan Shekokar. |
| 56. Manipal Manual of Surgery | - Dr. Rajgopal Shenoy |

15. SHALYA – KSHARA EVUM ANUSHAstra KARMA

PAPER - I Shalya Siddhanta – Fundamentals of Surgery

100 Marks

- 1 Sushruta's contributions in surgical concepts and practices.
- 2 Knowledge of Dosha, Dhatu and Mala Vigyan and their importance in surgical diseases.
- 3 Significance and importance of Rakta as the Chaturth Dosha.
- 4 Yantras and Shastras – Surgical Instruments - Ancient and recent advances.
- 5 Trividha Karma – Purva, Pradhana and Pashchat Karma and its Importance.
- 6 Asepsis and Antisepsis.
- 7 Nirjantukarana – Sterilization – Various methods for surgical equipments, laparoscopes, linen and Operation theatre.
- 8 Surgical infections – Sepsis, Tetanus and Gas gangrene.
- 9 Care of patients suffering from Hepatitis, HIV-AIDS, STD and other associated infectious diseases.
- 10 Ashtavidha Shastra Karma – Critical knowledge and their application in surgical practice.
- 11 Suturing materials, appropriate use of sutures, drains, prosthetic, grafts and surgical implants.
- 12 Concept of Marma and their clinical application.
- 13 Shock - Its varieties and management.
- 14 Raktasrava / Haemorrhage – Types, Clinical features and Management.
- 15 Concept of Raktastambhana –Haemostasis.
- 16 Vranasopha – Inflammation and Vidradhi - Abscess
- 17 Granthi – Cyst and Arbuda – Benign and malignant Neoplasm – Concept of Oncogenesis and genetics of cancer.
- 18 Gulma and Udara Roga.
- 19 Kshudra Roga.
- 20 Fluid, electrolyte, Acid Base Balance and Nutrition
 - a. Introduction of physiology of fluids and electrolytes.
 - b. Dehydration and over hydration.
 - c. Specific electrolyte loss, Acidosis, Alkalosis, Symptomatology and Management.
 - d. Electrolyte changes in specific surgical conditions and their management.
 - e. Plasma volume expanders and their use in surgical condition.
 - f. Various replacement fluids in surgery, mode of administration and complications.
 - g. Nutrition – Indications, types, mode of administration and complications.
- 21 Blood Transfusion – Blood groups, compatibility, Indications, Contraindications and complications with management.
- 22 Knowledge of antibiotics, analgesics, anti-inflammatory and emergency drugs in surgical practice.

PAPER – II Vishista Anushastra Karma

100 Marks

1. Kshara Karma and Prayoga – Therapeutic Chemical Cauterization.

- i. Introduction of different types of Kshara, Method of preparation, Standardization, pH value, Application, Complications and its management.
- ii. Surgical Anatomy and Physiology of Anus and Rectum.
- iii. Arshas - Nidana, Purvaroop, Roopa, Samprapti, Prakara and Chikitsa.
- iv. Haemorrhoids - Aetio-pathogenesis, types and its surgical management.
- v. Knowledge of different methods of treating Haemorrhoids - Rubber band ligation, D.G.H.A.L, Radiofrequency, Ablation, Cryo-surgery, Cautery, Laser, Infrared coagulation and other advanced techniques.
- vi. Bhagandara - Nidana, Samprapti, Prakara, Doshanusarachikitsa, Knowledge and application of Kshara Sutra.

- vii. Fistula-in-ano - Definition, Aetio-Pathogenesis, Types, Diagnostic methods and its Surgical, Para Surgical Management including knowledge of Fibrin Glue, Advanced Flap Therapies and other recent techniques.
- viii. Parikartika - Nidana, Samprapti and its Chikitsa.
- ix. Fissure-in-ano - Aetio-pathogenesis, types and its surgical management.
- x. Sannirudhaguda and its Chikitsa.
- xi. Anal Stenosis - Aetio-pathogenesis and its surgical management.
- xii. Gudavidradhi - Nidana, Purvaroopo, Roopa, Samprapti, Prakara and its Chikitsa.
- xiii. Anorectal abscesses – Aetio- pathogenesis, types, complications and its surgical management.
- xiv. Gudagatashalya – Diagnosis and its Management.
- xv. Foreign body in rectum and anal canal - Method of diagnosis and its management.
- xvi. Congenital Anorectal disorders and its surgical management.
- xvii.** Gudaarbuda and Granthi and its Chikitsa.
- xviii.** Anorectaltumour - Types and its surgical management.

2. Agnikarma – Therapeutic cauterization

- i. Introduction, definition and importance of Agnikarma.
- ii. Agnikarma - Poorva, Pradhana and Paschat karma, various substances and Shalakas used for Agnikarma and their indications, contra-indications and complications.
- iii. Diagnosis and management of Oil burn, Dhumopaghata, Ushnavata, Sunburn, Frost bite and Electric burn.
- iv. Knowledge of modern thermal equipment - Diathermy, Laser therapy, microwave, Ultracission technique, Cryo Technique and its uses.
- v. Effect of Agnikarma on skin, muscle tissue, nerves, metabolism, blood circulation and infective lesions.

3. Raktamokshana – Bloodletting Procedures

- i. Introduction and importance of Raktamokshana.
- ii. Indication and contraindication of Raktamokshana.
- iii. Justification of usage of different types of Raktamokshana in various therapeutic applications.
- iv. Different types of Raktamokshana – Sastrakritha - Siravyadhana, Prachana and Asastrakritha - Shringa, Jaluka, Alabu and Ghati.
- v. Jalauka - Nirukti, Paryaya, Bhedha, Sangrahana, Samrakshana, Jalaukavacharana Vidhi - Poorva, Pradhana and Paschat karma.
- vi. Knowledge of Leeches - Morphology, Anatomy, Physiology, Bio-chemical effects of its various constituents present in its saliva.
- vii. Rakta- Importance, Formation, Panchabhoutikatva, RaktaSthana, Guna, Prakurta Karma and Rakta Sara Purashalakshanas. Suddha and Dushta Rakta Lakshanas. Rakta Pradoshaja Vyadhis.

PAPER – III Adhunika Shastra Karma - Modern Surgery

100 Marks

- 1. Fundamentals of modern surgery and treatment of surgical disorders including surgical anatomy, physiology and pathology.
- 2. Diagnosis and surgical measures for disorders of vein, artery, ligaments, joints and muscles.
- 3. Diagnosis and Surgical management of neck disorders e.g. salivary glands, thyroid tumours, etc.
- 4. Diagnosis and Surgical management of breast diseases.
- 5. Diagnosis and surgical management of traumatic disorders - Head injury, thoracic and abdominal trauma.
- 6. Diagnosis and surgical management of diseases of Gastrointestinal system- stomach, pancreas, peritoneum, omentum, mesentery, retroperitoneal space, small intestine, large intestine and vermiform appendix.

7. Diagnosis and surgical management of Proctological disorders.
8. Diagnosis and surgical measures of diseases of Hepatobiliary system - Liver, gall bladder, bile ducts and spleen.
9. Diagnosis and surgical management of diseases of Urogenital system.
10. Diagnosis and surgical management of diseases of scrotum and testis. – Hydrocele, Ectopic testis and Undescended testis.
11. Diagnosis and surgical management of Hernias – Inguinal, femoral, umbilical, incisional, abdominal wall and other hernias.
12. Endoscopic procedures – Oesophagogastrroduodenoscopy, Sigmoidoscopy and Colonoscopy.
13. Diagnostic and therapeutic laparoscopy.
14. Anaesthesia - Definition, Types, Anaesthetic agents, Indications, Contraindications, Procedures, Complications and Management.

PAPER – IV ShalyaVangmaya

100 Marks

1. Thorough study of the Sushruta Samhita including other relevant portions of Brihatrayee and Laghutrayee.
2. Knowledge and importance of Surgical Audit.
3. Value of research and teaching in surgery.
4. Medico legal issues - Understanding the implications of acts of omission and commission in practice. Issues regarding Consumer Protection Act, medical profession, national health policy - Implications in a medico-legal case like accidents, assaults etc.
5. Surgical ethics including Informed consent.
6. Knowledge of different type of experimental Surgical Model for Research in Surgery.

Pattern of Practical examination

100 Marks

- | | |
|---|-----------|
| 7. Case record (25) | -10 Marks |
| 8. Short case | -10 Marks |
| 9. Long case | -20 Marks |
| 10. Identification of specimen / radiograph and Instruments | -20 Marks |
| 11. Thesis Presentation | -20 Marks |
| 12. Viva-voce | -20 Marks |

Reference Books

- | | |
|---|-----------------------------------|
| 57. Sushruta Samhita | |
| 58. Ashtanga Sangraha | |
| 59. Ashtanga Hridaya | |
| 60. Charaka Samhita | |
| 61. The Surgical instruments of the Hindus | - Girindranath Mukhopadhyaya |
| 62. Shalya Tantra Samuchchaya | - Pandit Ramadesh Sharma |
| 63. Shalya Vigyan (Part 1-2) | - Dr. Surendra Kumar Sharma |
| 64. Shalya Samanvaya (Part 1-2) | - Vd. Anantaram Sharma |
| 65. Shalya Pradeepika | - Dr. Mukund Swaroop Verma |
| 66. Sushruti | - Dr. Ram Nath Dwivedi |
| 67. Clinical Shalya Vigyan | - Dr. Akhilanand Sharma |
| 68. Bhagna Chikitsa
Deshpande | - Dr. Prabhakar Janardhan |
| 69. Kshara sutra management in anorectal ailments
and Dr. Kulwant Singh. | - Dr. S.K. Sharma, Dr. K.R.Sharma |
| 70. Anorectal diseases in Ayurveda
Kumar Chowdary. | - Dr. Sizoria and Dr. Praveen |
| 71. Adhunik Shalya Chikitsa Siddhanta | - Dr. Katil Narshingham Udupa |
| 72. Agnikarma Technology Innovation | - Dr. P.D. Gupta |
| 73. Shalya Tantra Ke Siddhant | - Dr. K.K.Takral |

- | | |
|--|---|
| 74. Recent advances in the management of Arshas / Haemorrhoids | - Dr. P. Hemantha Kumar |
| 75. Arsha Evum Bhagander Mein sutra Avacharan | - Vd. Kanak Prasad Vyas |
| 76. Recent advances in Kshara Sutra | - Dr. M. Bhaskar Rao |
| 77. Leech application in Ayurveda | - Dr. M. Bhaskar Rao |
| 78. Kshara Sutra | - Dr. S.N.Pathak |
| 79. Shalya Shalakya Tantra | - Vd. S.G. Joshi |
| 80. Surgical ethics of Ayurveda | - Dr. D.N. Pande |
| 81. Text book of Surgery | - Sabistan |
| 82. Operative Surgery | - Rob and smith |
| 83. Bailey and Love's Short Practice of Surgery
Mann and R.C.G. Russell | - Norman.S. Williams, Charles.V. |
| 84. Fractures and Joint Injuries | - Watson-Jones |
| 85. Text books of Operative Surgery | - Farquharsons' |
| 86. Principles of Surgery | - Schwartz |
| 87. Emergency Surgery | -Hamilton Bailey's |
| 88. Surgical pathology | - Willing Worth |
| 89. Clinical methods in surgery | - S. Das |
| 90. Textbook of Operative Surgery | - S. Das |
| 91. Shalya Vigyan (Sachitra) | - Anantram Sharma |
| 92. Anushastra Karma | - Dr. D.N. Pande |
| 93. Concept of Vrana is Ayurveda | - Dr. Lakshman Singh |
| 94. Significance for Poorva Karma in Surgical Patient | - Dr. Lakshman Singh |
| 95. Sangyahan Prakash | - Dr. D.N. Pande |
| 96. A concise Text Book of Surgery | - S. Das |
| 97. A manual on Clinical Surgery | - S. Das |
| 98. A System of Surgical Diagnosis | - T.N. Patel |
| 99. A Practical Guide to Operative Surgery | - S. Das |
| 100. Drugs and Equipment for Anaesthesia | - Arun kumar |
| 101. Manual of Surgical Instruments | - M.M. Kapur |
| 102. Ward Procedures | - Patel Mansukh. B |
| 103. Recent trends in the management of Arshas / Haemorrhoids | - Dr. P. Hemantha Kumar |
| 104. Primary Anaesthesia | - Maurice King |
| 105. Synopsis of Anaesthesia | - Lee |
| 106. Clinical Anatomy/ Surgical Anatomy | - John E.Skandalakis |
| 107. Surgical Instruments of the Hindus | - Girindharnath Mukopadyay |
| 108. Outline of Orthopedics | - John Crawford Adams and David Hamblen. L |
| 109. Outline of Fracture | - John Crawford Adams |
| 110. Recent trends in the management of Bhagandara / Fistula-in-ano | - Dr. P. Hemantha Kumar |
| 111. Principles and Practice of Agnikarma | - Dr. Anand Kumar and Dr. Kanchan Shekokar. |
| 112. Manipal Manual of Surgery | - Dr. Rajgopal Shenoy |
