

APRIL - 2001

[KD 029]

Su.b. Code : 15t

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Neurosurgery

(New and Revised Regulations for 5 Years Course)

Part I

Paper I — BASIC SCIENCES IN RELATION TO
GENERAL SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagram wherever necessary.

1. Discuss the etiology, clinical features and management of Tetanus. (2)
2. Discuss etiology, pathology, clinical features and management of chronic Duodenal ulcer. (2)
3. Write briefly on : (5 × 10 = 50)
 - (a) Doppler ultrasonography
 - (b) Cleft lip
 - (c) HIV
 - (d) Madura foot
 - (e) Carpal Tunnel syndrome.

NOVEMBER - 2001

[KE 029]

Sub. Code 1551

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(New and Revised Regulations for 5 Years Course)

Branch II — Neurosurgery

Part I

**Paper I — BASIC SCIENCES IN RELATION TO
GENERAL SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw diagrams wherever necessary.

1. Discuss the management of fluid and electrolyte balance in surgical practice. (25)
2. Describe the vascular supply and lymphatic drainage of stomach. How do you investigate a case of carcinoma stomach? (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Spina Bifida
 - (b) Central venous pressure
 - (c) Total parenteral nutrition
 - (d) Decubitus ulcer
 - (e) Positive pressure respiration.

MARCH - 2002

[KG 029]

Sub. Code : 1551

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(New and Revised Regulations for 5 years course)

Branch II — Neurosurgery

Part — I

**Paper I — BASIC SCIENCES IN RELATION TO
GENERAL SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagram wherever necessary.

1. Define and classify shock. How do you manage hypovolaemic shock? (25)
2. Discuss clinical features, investigations and treatment of Buerger's disease (TAO). (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Tension pneumothorax.
 - (b) Pilonidal sinus.
 - (c) Cystosarcoma phylloides.
 - (d) Lasers in surgery.
 - (e) Branchial cyst.

SEPTEMBER - 2002

[KH 029]

Sub. Code : 1551

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

Branch II — Neurosurgery

(New and Revised Regulations for 5 years course)

Part I

**Paper I — BASIC SCIENCES IN RELATION TO
GENERAL SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagram wherever necessary.

1. Discuss the development of Diaphragm. Discuss the diagnosis and management of diaphragmatic hernia. (25)
2. Describe the anatomy of greater omentum and its use in surgical practice. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Deep palmar space
 - (b) Basal cell carcinoma
 - (c) Urachal cyst
 - (d) Frey's syndrome
 - (e) Carotid artery blow out

APRIL - 2003

[KI 029]

Sub. Code : 1551

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 5 years course)

Branch II — Neurosurgery

Part I

Paper I — BASIC SCIENCES IN RELATION TO
GENERAL SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagram wherever necessary.

1. Describe the surgical anatomy of the venous drainage of lower limb. How will you manage a venous ulcer on the leg? (25)
 2. Describe the anatomical distribution of the lymphnodes in the neck. Discuss the clinical features, staging and management of non-hodgkin's lymphoma. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Nitrogen balance
 - (b) Compare and contrast ranitidine and omeprazole
 - (c) Congenital anomalies of the extra biliary system
 - (d) Complications of massive blood transfusion
 - (e) Tumour markers.
-

OCTOBER - 2003

[KJ 029]

Sub. Code : 1551

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 5 Year Course)

Branch II — Neurosurgery

Part I

Paper I — BASIC SCIENCES IN RELATION TO
GENERAL SURGERY

Time : Three hours.

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks
M.C.Q. : 20 marks

M.C.Q. : Twenty minutes

M.C.Q. must be answered **SEPARATELY** on the
answer sheet provided as per the instructions on
the first page of M.C.Q. Booklet.

Draw suitable diagrams wherever necessary.

Answer **ALL** questions.

1. Describe surgical anatomy and lymphatic
drainage of Breast. Discuss staging of Breast cancer.
(15)

2. Describe surgical anatomy and lymphatic
drainage of Stomach. Discuss etiology and pathology of
Duodenal ulcer. (15)

3. Write short notes on : (10 × 5 = 50)

- (a) Mixed parotid tumour.
- (b) Polycystic kidney.
- (c) Hashimoto's Thyroiditis.
- (d) Tumours of Jaw.
- (e) Wound healing.
- (f) Marjolin's ulcer.
- (g) Cystic Hygroma.
- (h) Portal vein.
- (i) Leucoplakia.
- (j) Acid-Base balance.

APRIL - 2004

[KK 029]

Sub. Code : 1551

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(New and Revised Regulations for 5 Years Course)

Branch II — Neuro Surgery

Part I

Paper I — BASIC SCIENCES IN RELATION TO
GENERAL SURGERY

Time : Three hours

Maximum : 100 marks

Time : Two hours and

Theory : 80 marks

forty minutes

M.C.Q. : 20 marks

M.C.Q. : Twenty minutes

Answer ALL questions.

A. Essay questions :

(2 × 15 = 30)

(1) Describe general principles underlying the innervation of blood vessels and Anatomy of cervical sympathetic chain.

(2) Describe the coagulation and fibrinolytic systems. Indicate the uses of Haemostatics and fibrinolytics in surgery.

B. Write short answers on :

(10 × 5 = 50)

- (1) Angiography.
- (2) Lasers in surgery.
- (3) Onchogenes.
- (4) Monoclonal antibodies.
- (5) Sentinel Node.
- (6) Regional Hypothermia
- (7) Intravenous Hyper Almentation.
- (8) Central venous Pressure Monitoring.
- (9) Metabolic Alkalosis.
- (10) Sporing Anaerobic Bacterial Infections.

AUGUST - 2004

[KL 029]

Sub. Code : 1551

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 5 Year Course)

Branch II — Neurosurgery

Part I

**Paper I — BASIC SCIENCES IN RELATION TO
GENERAL SURGERY**

Time : Three hours Maximum : 100 marks

**Theory : Two hours and Theory : 80 marks
forty minutes**

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Draw suitable diagrams wherever necessary.

Answer ALL questions.

I. Essay : (2 × 15 = 30)

**(1) Describe Surgical Anatomy, Blood supply,
Venous drainage of Liver. Add a note on Budd Chiari
syndrome.**

**(2) Discuss Surgical Anatomy of Anal Canal and
describe congenital abnormalities of Anus.**

II. Write short notes on :

(10 × 5 = 50)

- (a) Branchial cyst.**
- (b) Solitary nodule thyroid.**
- (c) Lymphoedema.**
- (d) Hypospadiasis.**
- (e) Pheochromocytoma.**
- (f) Intercostal drainage.**
- (g) Rodent ulcer.**
- (h) Thrombophlebitis.**
- (i) Inguinal canal.**
- (j) Lumbar sympathectomy.**

FEBRUARY - 2005

[KM 029]

Sub. Code : 1551

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 5 Year Course)

Branch II — Neurosurgery

Part I

Paper I — BASIC SCIENCES IN RELATION TO
GENERAL SURGERY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Draw suitable diagrams wherever necessary.

Answer ALL questions.

I. Essay : (2 × 15 = 30)

(1) Describe the surgical anatomy of thyroid gland and discuss its relevance in operative procedures on the thyroid.

(2) Describe the anatomy of venous system of lower limb and discuss its relevance in the development of chronic venous insufficiency of the lower limbs.

II. Write short notes on :

(10 × 5 = 50)

- (a) Waldeyer's ring
- (b) Carcinoid tumour
- (c) Spina bifida
- (d) Leukoplakia in oral cavity
- (e) Acute dilatation of stomach
- (f) Basal cell carcinoma – types and aetiopathogenesis
- (g) Synergistic gangrene
- (h) Pathogenesis of decubitus ulcer
- (i) Briefly mention complications of blood transfusion
- (j) Phimosis.

AUGUST - 2006

[KP 029]

Sub. Code : 1551

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 5 Year Course)

Branch II — Neurosurgery

Part I

**Paper I — BASIC SCIENCES IN RELATION TO
GENERAL SURGERY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Draw suitable diagrams wherever necessary.

Answer ALL questions.

I. Essay questions :

(1) Describe the nuclei and connection of the thalamus and its clinical relevance. (20)

(2) Describe in detail the surgical anatomy of the Brachial plexus. What are the surgical approaches to a patient with thoracic outlet syndrome causing neurovascular deficits? (15)

(3) Describe the surgical anatomy of Liver and outline the diagnostic investigations for a space occupying lesion in liver. (15)

II. Write short notes on :

(6 × 5 = 30)

(a) Reflexes of normal Urinary Bladder

(b) Venous Drainage of Brain

(c) Autoregulation of cerebral blood flow

(d) Blood Brain Barrier

(e) Skin grafting

(f) Breast conservative surgery – indication and contraindications.

[KR 029]

Sub. Code : 1551

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 5 years course)

Branch II — Neurosurgery

Part I

**Paper I — BASIC SCIENCES IN RELATION TO
GENERAL SURGERY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Draw suitable diagrams wherever necessary.

Answer ALL questions.

I. Essay Questions:

1. Discuss the Triangles of Neck and their relevance to Neck dissection. (20)
2. Describe the Pathophysiology of Deep vein Thrombosis and their management including pulmonary embolism. (15)
3. Discuss the factors influencing wound Healing. (15)

II. Short Notes :

(6 × 5 = 30)

- (a) Turban Tumor
 - (b) Hospital Infections
 - (c) Revised Trauma score
 - (d) Onco Genes
 - (e) Glucose Tolerance Test
 - (f) Epidural Anaesthesia.
-

August 2009

[KV 029]

Sub. Code: 1551

M.Ch. DEGREE EXAMINATIONS

(Higher Specialities)

(New and Revised Regulations for 5 years course)

Branch II – Neuro Surgery

Part I

**Paper I – APPLIED BASIC SCIENCES IN RELATION
TO GENERAL SURGERY**

Q.P. Code: 181551

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 =40)

1. What are the risks of blood transfusion and describe the metabolic changes following blood transfusion and blood substitutes and mention alternates to transfusion.
2. Describe wound healing and factors responsible for wound healing.

II. Write short notes on:

(10 X 6 = 60)

1. Gas Gangrene.
2. MEN II(a) II(b) (Multiple Endocrinal Neoplasia)
3. Apoptosis.
4. Plasma Expanders.
5. Premalignant condition.
6. Myocutaneous flap.
7. Prostaglandins.
8. Levels of neck node dissection.
9. Air embolism.
10. Sentinel lymph node.

August 2011

[KZ 029]

Sub. Code: 1551

**MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATION
(SUPER SPECIALITIES)**

BRANCH II – NEURO SURGERY

APPLIED BASIC SCIENCES IN RELATION TO GENERAL SURGERY

Q.P. Code: 181551

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. Discuss the anatomy of the thyroid gland. | 11 | 35 | 15 |
| 2. Discuss the physiology of gastric acid secretion. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|------------------------------------|---|----|---|
| 1. Erector spinae. | 4 | 10 | 7 |
| 2. Odontoid process. | 4 | 10 | 7 |
| 3. Inguinal canal. | 4 | 10 | 7 |
| 4. Recurrent laryngeal nerve. | 4 | 10 | 7 |
| 5. Houston's valves. | 4 | 10 | 7 |
| 6. Anorectal ring. | 4 | 10 | 7 |
| 7. HLA antigens. | 4 | 10 | 7 |
| 8. Common bile duct. | 4 | 10 | 7 |
| 9. Blood supply of the stomach. | 4 | 10 | 7 |
| 10. Mechanisms of lymph transport. | 4 | 10 | 7 |

(LD 029)

AUGUST 2013

Sub. Code: 1551

**M.Ch. – NEURO SURGERY
FIVE YEARS/SIX YEARS COURSE – PART – I
Paper – I APPLIED BASIC SCIENCES IN RELATION TO GENERAL
SURGERY
Q.P.Code: 181551**

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss on layer of scalp, its blood supply and nerve supply, its surgical importance.
2. Discuss on general arrangements of autonomic nervous systems and its neurotransmitter.

II. Write notes on:

(10X7=70)

1. Anatomy and chemical composition of intervertebral disc.
2. Gross anatomy of pituitary gland and its hormones.
3. Branchial cyst.
4. Anatomy and formation of Rectus sheath.
5. Thyroid function test.
6. Course of Facial nerve.
7. Causes and management of metabolic acidosis.
8. Spina bifida.
9. Pathophysiology of gram negative septicaemia.
10. Formation of brachial plexus.

[LF 029]

AUGUST 2014

Sub. Code: 1551

**M.Ch. – NEURO SURGERY
FIVE YEARS / SIX YEARS COURSE**

PART – I

**Paper I – APPLIED BASIC SCIENCES IN RELATION TO
GENERAL SURGERY**

Q. P. Code: 181551

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the anatomy and lobes of the liver.
2. Discuss the physiology of pituitary – adrenal axis.

II. Write notes on:

(10 x 7 = 70)

1. Anatomy of femoral nerve.
2. Anatomy of common bile duct.
3. Ischiorectal fossa.
4. Causes and management of hypokalemia.
5. Multiple endocrine neoplasia – type 2.
6. Metabolic alkalosis.
7. Course and branch of radial nerve.
8. Cubital fossa.
9. Branches of external carotid artery.
10. Anatomy of galea aponeurotica.

[LH 029]

AUGUST 2015

Sub. Code: 1551

M.Ch. – NEURO SURGERY
FIVE YEARS / SIX YEARS COURSE
PART – I

PAPER I – APPLIED BASIC SCIENCES IN RELATION TO GENERAL SURGERY

Q.P.Code: 181551

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Pathophysiology of thyroid malignancies.
2. Benign and malignant tumors of adrenal gland.

II. Write notes on :

(10 x 7 = 70)

1. Mammogram.
2. Feeding gastrostomies.
3. Scalp Swellings.
4. Choledochal cyst.
5. Features of lower limb arterial stenosis.
6. Anatomy of inguinal canal.
7. Immunohistochemistry.
8. Types of renal calculi.
9. Potassium imbalance.
10. Phimosis.
