

APRIL - 2001

[KD 038]

Sub. Code : 1583

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Neurosurgery

(Revised Regulations for 2 years course)

Paper III — NEUROSURGERY

Time : Three hours

Maximum : 100 marks

1. Discuss the principles and techniques of stereotactic surgery. (30)
2. Discuss the Biomechanics of the spine. (30)
3. Write short notes on : (4 × 10 = 40)
 - (a) Subdural Haematomas in children
 - (b) Glassopharyngeal Neuralgia
 - (c) Double compartment hydrocephalus
 - (d) Corpectomy for cervical spondylotic myelopathy.

NOVEMBER - 2001

[KE 038]

Sub. Code : 1583

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations For 2 Years Course)

Branch II — Neurosurgery

Paper III — NEUROSURGERY

Time : Three hours

Maximum : 100 marks

1. Discuss the advantages and disadvantages of the various approaches to the posterior 3rd ventricle. (30)
2. Discuss the various methods of spinal instrumentation and stabilisation. (30)
3. Write short notes on : (4 × 10 = 40)
 - (a) Post traumatic epilepsy
 - (b) Subtemporal decompression
 - (c) OPLL
 - (d) Craniopagus twins.

MARCH - 2002

[KG 038]

Sub. Code : 1585

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations for 2 years course)

Branch II — Neuro Surgery

Paper III — NEURO SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the management of Intracranial A-V malformations (30)
2. Discuss the management of cervical spine injuries. (30)
3. Write short notes on (4 × 10 = 40)
 - (a) Empty Sella Syndrome
 - (b) Diastematomyelia
 - (c) Management of Brain Stem Gliomas
 - (d) Arrested Hydrocephalous

SEPTEMBER - 2002

[KH 038]

Sub. Code : 1583

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 2 Years Course)

Branch II — Neurosurgery

Paper III — NEUROSURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

- 1. Discuss the surgical anatomy and management of jugular foramen tumours. (30)**
 - 2. Discuss the Biomechanics of the spine (30)**
 - 3. Write short notes on : (4 × 10 = 40)**
 - (a) Radiosurgery**
 - (b) Neuro fibromatosis**
 - (c) Syringomyelia**
 - (d) Neural transplant.**
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APRIL - 2004

[KK 038]

Sub. Code : 1583

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 3 years course)

Branch II — Neuro Surgery

Paper III — NEURO 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

Answer ALL questions.

A. Essay : (2 × 15 = 30)

(1) What are the clinical features of brain stem tumours? How will you classify it? What are the approaches to brain stem. (15)

(2) Describe the clinical features of post traumatic subdural hematoma. What is the cytology of subdural membrane. What are the causes of recurrent chronic subdural hematome? (15)

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

- (1) C.P. angle epidermoid
- (2) Tethered Cord syndrome
- (3) Arnold Chiari Malformation
- (4) Fractures around E.V. Junction
- (5) Cholesteatomas
- (6) Grading of subarachnoid hemorrhage
- (7) Psammoma bodies
- (8) Clinical features of medial frontal lobe lesions
- (9) Perinaud's syndrome
- (10) Cranioplasty.

FEBRUARY - 2005

[KM 038]

Sub. Code : 1583

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 3 years course)

Branch II — Neuro Surgery

Paper III — NEUROSURGERY

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

Answer ALL questions.

I. Essay questions: (2 × 15 = 30)

(1) Discuss the investigations and management of C.S.F. Rhinorrhia.

(2) Discuss the different approaches to C.P. Angle tumors with indications for each.

II. Short questions : (10 × 5 = 50)

- (a) Victor Horsley.
- (b) Tension pneumocephalus.
- (c) Nerve Graft/Repair.
- (d) Deep Brain Stimulation.
- (e) Endovascular interventions in cerebral aneurysms.
- (f) Odontoid fractures.
- (g) Hyponatremia in neurosurgical patients.
- (h) Functional grading in spinal injuries.
- (i) Failed back syndrome.
- (j) Cranio plasty.

FEBRUARY - 2006

[KO 038]

Sub. Code : 1583

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 3 years course)

Branch II — Neuro Surgery

Paper III — NEUROSURGERY

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

Answer ALL questions.

I. Essay : (2 × 15 = 30)

(1) Discuss approaches to the anterior third ventricle.

(2) A 20 year old man is brought to casualty with quadriplegia after fall from a height. Discuss how you will investigate and manage the patient.

II. Short notes : (10 × 5 = 50)

(a) Causes of secondary insult to the head injured brain.

(b) Spontaneous CSF rhinorrhoea.

(c) Spinal Dural arteriovenous fistula.

(d) Contributions of Charles Elsberg.

(e) Fractionated stereotactic radiotherapy.

(f) Endoscopic third ventriculostomy.

(g) Neuro navigation.

(h) The role of temporary clipping in aneurysm surgery.

(i) Spinal instrumentation.

(j) The relevance of the Human Genome Project to Neurosurgery.

AUGUST - 2006

[KP 038]

Sub. Code : 1583

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 3 years course)

Branch II — Neurosurgery

Paper III — NEUROSURGERY

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

Answer ALL questions.

I. Essay :

(1) Discuss the merits and demerits of various approaches to petroclival region. (20)

(2) Describe the etio-pathology, types and management of arachnoids cysts. (15)

(3) Discuss the clinical features, investigations and treatment of spinal tuberculosis. (15)

II. Short notes :

(6 × 5 = 30)

- (a) Lateral recess syndrome.**
 - (b) Hangman's fracture.**
 - (c) Growing skull fracture.**
 - (d) Classification of encephaloceles.**
 - (e) Dandy walker malformation.**
 - (f) Paranoids syndrome.**
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FEBRUARY - 2007

[KQ 038]

Sub. Code : 1583

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 3 years course)

Branch II — Neuro Surgery

Paper III — NEURO 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

Answer ALL questions.

Draw suitable diagram where ever necessary.

I. Essay :

1. Describe the clinical features diagnosis and Management of Craniopharyngioma. (20)

2. What is tinnitus what are the neurological causes of tinnitus? Describe the clinical features diagnosis and management of glomus jugular tumour. (15)

3. What is the pathophysiology of tuberculomas of brain? How will you manage them? (15)

II. Short notes :

(6 × 5 = 30)

1. Cerebral Vasospasm

2. Neuroendoscopy

3. Stereotaxic Radiosurgery

4. Chordomas

5. Microvascular decompression

6. Hyponatremia in neurosurgical patients.

[KR 038]

Sub. Code : 1583

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 3 years course)

Branch II — Neuro Surgery

Paper III — NEURO 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

Answer ALL questions.

I. Essay questions :

(1) A 20 year old man is brought to casualty with quadriplegia after fall from a height. Discuss how will you investigate and manage the patient. (20)

(2) Enumerate the different surgical approaches used in the management of 3rd ventricular tumours. Discuss the advantages and disadvantages between supra and infratentorial approaches. (15)

(3) Describe the merits and demerits of different approaches used for Basilar bifurcation Aneurysms. (15)

II. Short notes on :

(6 × 5 = 30)

- (a) Carotico-Cavernous fistula
- (b) Endoscopic surgery for ventricular tumours
- (c) Transcallosal approach
- (d) Intradural disc prolapse
- (e) Transphenoidal approaches – any two of your choice
- (f) Management of recurrent cerebral glioma.

February-2008

[KS 038]

Sub. Code : 1583

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations for 3 years course)

Branch II — Neuro surgery

Paper III — NEURO SURGERY

Q.P.Code : 171583

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagram wherever necessary.

I. Write Essay questions :

1. Write an essay on intra IVth ventricular mass. (20)

2. Describe the management of L1 Koch's knuckle deformity without any neurological deficit except local pain. (20)

II. Write short notes on : (10 × 6 = 60)

(1) Tonsillar herniation.

(2) Ultrasonic aspirator.

(3) Microscope.

(4) Prevention of bleeding in meningioma.

(5) Cerebral protection.

(6) Diabetes insipidus.

(7) Cysticercoma.

(8) CSF otorrhoea.

(9) Genom.

(10) Describe words starting with "pseudo" in neuroscience practice.

FEBRUARY – 2009

[KU 038]

Sub. Code: 1583

**M.CH DEGREE EXAMINATIONS
(Higher Specialities)
(Revised Regulations for 3 years course)
Branch II – Neuro Surgery
Paper III –NEURO SURGERY
*Q.P. Code: 171583***

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays: 2 x 20 = 40 Marks

1. Classification and management of pituitary macro adenoma.
2. Write an essay on colloid cyst.

II. Write short notes on: 10 X 6 = 60 Marks

1. Diffuse Axonal injury.
2. Growing fracture of the skull.
3. Gene therapy in Glioma.
4. Frameless stereotaxy.
5. Decompressive craniotomy.
6. Empty sella syndrome.
7. Vein of galen Malformation.
8. Carpal tunnel syndrome.
9. Failed back surgery syndrome.
10. Pathological laughter

August 2009

[KV 038]

Sub. Code: 1583

**M.Ch. DEGREE EXAMINATIONS
(Super Specialities)
(New and Revised Regulations)
(Common to both 5 years and 3 years course)**

**Branch II – Neuro Surgery
Paper III –NEURO SURGERY
Q.P. Code: 181583**

Time: Three hours

Maximum: 100 Marks

**ANSWER ALL QUESTIONS
Draw suitable diagrams wherever necessary.**

I. Essays:

2 x 20 = 40 Marks

1. Describe the microsurgical anatomy of C.P.Angle in relation to acoustic neuroma. Discuss the clinical feature and management of acoustic neuroma.
2. Describe the microsurgical anatomy of anterior communicating artery. Discuss the various procedures used presently in treating aneurismal S.A.H.

II. Write short notes on:

10 X 6 = 60 Marks

1. Carotid body tumors.
2. Spondylolisthesis.
3. Management of acromegaly.
4. PNET.
5. Pathogenesis of myelomeningocele and its management.
6. Multiple brain abscess.
7. Odontoid fracture.
8. Rathkes cleft cyst.
9. Management of cysticercosis.
10. Neurogenic bladder.

February 2010

[KW 038]

Sub. Code: 1583

**M.Ch. DEGREE EXAMINATIONS
(Super Specialities)
(New and Revised Regulations)
(Common to both 5 years and 3 years course)**

**Branch II – Neuro Surgery
Paper III –NEURO SURGERY
Q.P. Code: 181583**

Time: Three hours

Maximum: 100 Marks

**ANSWER ALL QUESTIONS
Draw suitable diagrams wherever necessary.**

I. Essays:

2 x 20 = 40 Marks

1. Surgical approaches to posterior third ventricular tumors.
2. How will you proceed to investigate a case of sub arachnoid hemorrhage admitted in your ward? What are the treatment options for aneurysms?

II. Write short notes on:

10 X 6 = 60 Marks

1. Astrocytoma – pathology and prognosis.
2. Spondylolisthesis.
3. Brain stem gliomas.
4. Cushing's diseases.
5. Cauda equina tumors.
6. International classification of epilepsy.
7. SIADH.
8. Management of cerebral metastases.
9. Spinal instability.
10. Treatment for trigeminal neuralgia.

August 2011

[KZ 038]

Sub. Code: 1583

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

BRANCH II – NEURO SURGERY

NEURO SURGERY

Q.P. Code: 181583

Time : 3 hours

Maximum : 100 marks

(180 Min)

Answer ALL questions in the same order.

I. Elaborate on :

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

- | | | | |
|---|----|----|----|
| 1. Discuss the current status of radiosurgery of brain tumours. | 11 | 35 | 15 |
| 2. Discuss in detail the biomechanics of head injury. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Spetzler – Martin grading of AVMs. | 4 | 10 | 7 |
| 2. Limitations of Glasgow Coma Scale. | 4 | 10 | 7 |
| 3. Diffuse axonal injury. | 4 | 10 | 7 |
| 4. Role of anticonvulsants in head injury. | 4 | 10 | 7 |
| 5. AO Classification of thoracolumbar fractures. | 4 | 10 | 7 |
| 6. Lateral mass fixation of cervical spine. | 4 | 10 | 7 |
| 7. Split cord malformations. | 4 | 10 | 7 |
| 8. Hemifacial spasm – treatment options. | 4 | 10 | 7 |
| 9. Selective amygdalohippocampectomy. | 4 | 10 | 7 |
| 10. Bifrontal basal interhemispheric approach. | 4 | 10 | 7 |

[LB 038]

AUGUST 2012

Sub. Code: 1583

**M.Ch – NEURO SURGERY
FIVE YEARS COURSE – PART II
Paper – III NEURO SURGERY
Q.P. Code: 181583**

**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. Colloid Cyst of Anterior III rd ventricle: Clinical presentation and surgical management. | 16 | 35 | 15 |
| 2. Describe the pathophysiology, diagnosis and management of Chronic Subdural Haemtoma. What are the causes of Recurrent Subdural Haemtoma? | 16 | 35 | 15 |

II. Write notes on:

- | | | | |
|---|---|----|---|
| 1. Principles and techniques of Stereotactic surgery. | 4 | 10 | 7 |
| 2. Management of Entrapment Neuropathy. | 4 | 10 | 7 |
| 3. Discuss the Biomechanics of Spine. | 4 | 10 | 7 |
| 4. Clinical features and management of OPLL. | 4 | 10 | 7 |
| 5. Management of Posttraumatic Epilepsy. | 4 | 10 | 7 |
| 6. Management of Failed Back Syndrome. | 4 | 10 | 7 |
| 7. Clinical presentation of CSF Rhinorrhae. | 4 | 10 | 7 |
| 8. Diagnosis and management of Carotico Cavernous Fistulae (C.C.F). | 4 | 10 | 7 |
| 9. Management of Cervical spine injuries. | 4 | 10 | 7 |
| 10. Discuss grading of Subarachnid Hemorrhage (SAH). | 4 | 10 | 7 |

(LD 038)

AUGUST 2013

Sub. Code: 1583

M.Ch. – NEURO SURGERY
FIVE YEARS COURSE – PART – II
Paper – III NEURO SURGERY
Q.P.Code: 181583

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss the operative approaches for the management of a clival mass.
2. Describe the pathogenesis of a brain abscess. Discuss the clinical features and management of cardiogenic brain abscess.

II. Write notes on:

(10X7=70)

1. Hypothalamic hamartoma.
2. Taylor Haughton lines.
3. Pathogenesis of syringomyelia in Chiari I malformation.
4. Jefferson's fracture and its management.
5. Contributions of Sir Victor Horsley.
6. Localization of central sulcus on MRI.
7. Temozolomide.
8. Fatty filum terminale.
9. Predictors of vasospasm in aneurysmal subarachnoid haemorrhage.
10. Chronic subdural haematoma.
