M.Ch [Neuro-Surgery]

BF/2015/05

# Basic Sciences as related to Neuro-Surgery

**[Paper –I]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Microsurgical anatomy of the tentorial hiatus. [10]

2. Intracranial herniations and its clinical presentation. [10]

3. Anatomy of the third ventricle as relevant to endoscpic approaches. [10]

4. Clinical presentations of intramedullary spinal tumours. [10]

5. Labelled cross sectional diagram at midpons level. [10]

6. Pathophysiology of Chiari malformations. [10]

7. Classification of spinal vascular malformations. [10]

8. Embryological basis of C-V junction anomalies. [10]

9. Primitive neuroectodermal tumours. [10]

10. Intracranial pressure waves. [10]

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# Clinical Neuro Surgery

**[Paper –II]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Diagnosis and management of symptomatic vasospasm. [10]

2. Radiological classification of pituitary adenoma and endonasal trans-sphenoid approach.

[10]

3. Current trends in treatment of basilar invagination. [10]

4. Anterior cavernous sinus lesions symptomatology. [10]

5. Management protocol for incidental and asymptomatic intracranial aneurysms.

[10]

6. Petroclival meningiomas- Classification and surgical approaches. [10]

7. Indication of surgery in a patient of intractable epilepsy. [10]

8. Controversies in management of low grade glimomas. [10]

9. De-compressive craniotomy. [10]

10. Clinical presentation and management of a patient with transtentorial herniation. [10]

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# Operative Neuro Surgery

**[Paper –III]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. **Write short notes:-** [10]

a. Colloid cyst.

b. Diffuse axonal injury.

2. **Write short notes:-** [10]

a. Brain retraction in micro-neuro surgery.

b. High speed drills.

3. Approach to skull base lesions by endonasal endoscopic route. [10]

4. Discuss minimally invasive approaches to treat spondylolisthiasis (Lumbar). [10]

5. Discuss the management of IV(forth) ventricular tumors. [10]

6. Discuss the management of anterior communicating artery aneurysms. [10]

7. Discuss management of crnio-vert functions and upper cervical spine injury. [10]

8. Discuss management of various cranial nerve neuralgias. [10]

9. Discuss management of non-functioning pituitary adenomas. [10]

10. Discuss the various lateral skull base approaches. [10]

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# Recent advances in Neuro Surgery

**[Paper –IV]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Early vs delayed surgery for ruptured intracranial aneurysm. [10]

2. Far lateral approaches for foramen magnum lesion. [10]

3. Carotid endarterectomy. [10]

4. CCF. [10]

5. Neural transplantation. [10]

6. Epilepsy surgery. [10]

7. Cranio-cerebral erosion [10]

8. Management of Cushing disease. [10]

9. Neuronavigation. [10]

10. TLIF and PLIF. [10]

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