NEUROSURGERY (DIRECT COURSE- PART I)

PAPER-I

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Tim	•		
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: 3 hours

NS1/D/11/22/I

Max. Marks: 100

Attempt all questions in order. Each question carries 10 marks.

Write short notes on:

		Discuss clinical features of lesion involving superior orbital fissure.	6+4
2.		Draw a diagram of muscle spindle. Discuss the mechanism of spasticity.	3+7
3.		Describe the cistern around brain stem. Discuss Galenic system of veins.	5+5
4.		Describe mechanism of gaze eye movements (saccadic with smooth pursuit). Discuss clinical significance and pathogenesis of optico-kinetic nystagmus.	5+5
5.		Describe structure of a neuron. Discuss neuroglial control of neuronal function.	4+6
6.	a. b.	Discuss pathophysiology of cranial neuralgias. Entrapment neuropathy.	5+5
7.		Enumerate fungal infections of brain. Discuss mode of transmission, clinical features and management of Cryptococcus infection of brain	4+6
8.		Enumerate brain herniations. Discuss pathology of central herniation.	2+8
9.	a. b.	Hypothalamic pituitary axis Describe clinical features of hypothalamic dysfunction	5+5
10.		Describe physiology of micturition. Discuss neuro-physiological basis of neurogenic bladders.	4+6

NEUROSURGERY (DIRECT COURSE - PART I)

PAPER- II

Time : 3 hours Max. Marks : 100

NS1/D/11/22/II

Attempt all questions in order. Each question carries 10 marks.

1.		Describe neurological complications of cyanotic heart disease. Discuss mechanism of brain involvement in cyanotic heart diseases.	6+4
2.		Describe pathology of soft tissue anomalies at cranio-vertebral junction. Discuss pathogenesis of hydromyelia.	6+4
3.		Describe persistent vegetative states. Discuss pathogenesis of Locked-in syndrome.	5+5
4.		Describe pathology of intra-ventricular tumors. Discuss histomorphology of choroid plexus carcinomas.	6+4
5.		Describe the tumors of posterior pituitary. Discuss persistent hyponatremic states.	6+4
6.		Describe causes of unilateral Foot Drop. Describe pathology of lesion causing Foot Drop.	6+4
7.		Enumerate skull fractures. Describe pathogenesis of growing fracture of skull.	3+7
8.	[Discuss pathophysiology of causalgia.	10
9.		Describe pathology of normal pressure hydrocephalus. Discuss conductance to bulk flow of CSF.	7+3
10.		Enumerate calvarial lesions. Discuss pathology of Aneurysmal Bone Cysts.	6+4
