Reg. No.		DK:	

# MANIPAL ACADEMY OF HIGHER EDUCATION M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2019

SUBJECT: PAPER I: BASIC SCIENCES

Tuesday, July 09, 2019

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- All questions are compulsory.
- All questions carry equal marks.
- ∠ Long essay:
- 1. CSF production and CSF flow dynamics
- 2. Etiopathogenesis of cerebral aneurysms

 $(20 \text{ marks} \times 2 = 40 \text{ marks})$ 

- 3. Short Notes:
- 3A. Floor of the third ventricle
- 3B. Control of micturition
- 3C. Inhibitory neurotransmitters
- 3D. Pathophysiology of spinal cord injury
- 3E. Endocrinological diagnosis of Cushings disease
- 3F. Intracranial Epidermoid cysts concept in pathogenesis

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$ 



Reg. No.			
		the particular of the control of the	

#### MANIPAL ACADEMY OF HIGHER EDUCATION

#### M.Ch. (NEURO SURGERY) DEGREE EXAMINATION - JULY 2019

#### SUBJECT: PAPER II: CLINICAL NEUROLOGY AND NEUROSURGERY

Wednesday, July 10, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- All questions are compulsory.
- Z Long Essay:
- 1. Internuclear opthalmoplegia
- 2. Cerebral localization diagnosis of various cerebral frontal lobe dysfunctions

 $(20 \text{ marks} \times 2 = 40 \text{ marks})$ 

- 3. Write briefly on:
- 3A. Neurocysticercosis
- 3B. Normal pressure hydrocephalus ...
- 3C. \* Idiopathic intracranial hypertension
- 3D. Spontaneous intracerebral hematoma
- 3E. Prolactinomas
- 3F. Superior orbital fissure syndrome

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$ 

Reg. No.		
	3	

### MANIPAL ACADEMY OF HIGHER EDUCATION

#### M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2019

SUBJECT: PAPER III: CLINICAL NEUROSURGERY

Thursday, July 11, 2019

Time:	14.00	-17:00 Hrs.
I IIIIC.	17.00	- 1 / .UU III 5.

Max. Marks: 100

- All questions are compulsory.
- Essay:
- 1. C1-C2 fusion techniques.
- 2. A 30 year old male presents with galactorrhea and decreased libido for 6 months. Prolactin levels 221ng/ml. Imaging shows a 9 mm pituitary adenoma. Describe the diagnostic approach for this patient with reference to clinical manifestations, indications of therapy in prolactinomas and medical management in particular.

 $(20 \text{ marks} \times 2 = 40 \text{ marks})$ 

- 3. Short notes:
- 3A. Temporal lobectomy-indications and surgical technique
- 3B. Moyamoya disease-classification and surgical options
- 3C. Jugular foramen tumours
- 3D. Epilepsy surgery-basic aspects and options available
- 3E. Nerve compression syndromes
- 3F. Management of lumbar spondylolisthesis

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$ 



	 	 	 1	
Reg. No.				

# MANIPAL ACADEMY OF HIGHER EDUCATION

## M.Ch. (NEURO SURGERY) DEGREE EXAMINATION - JULY 2019

SUBJECT: PAPER IV: RECENT ADVANCES, NEURORADIOLOGY

Friday, July 12, 2019

TO!	14:00 -	17.00	TT
11me	14 (11) -	1/.00	TIIS.

Max. Marks: 100

- ∠ All questions are compulsory.
- Essay:
- 1. Role of decompressive craniectomy and clinical trials for the same.
- 2. Functional neurosurgery

 $(20 \text{ marks} \times 2 = 40 \text{ marks})$ 

- 3. Short notes:
- 3A. PET
- 3B. Harvey Cushing
- 3C. Awake surgery for neurological disorders
- 3D. Embolization
- 3E. Temozolamide
- 3F. SLIC classification for spinal trauma

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$