EXAMINATION, AUGUST - 2022

(Three years course)

PAPER ONE

BASIC NEUROSCIENCES – NEUROANATOMY, PHYSIOLOGY, NEURO PHARMACOLOGY

[Time allotted: Three hours]		[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams wherever necessary.	
Q. 1.	Describe the biomechanics, pathogenesis and management of a T10 vertibra fracture.	al compressive (10)
Q. 2.	Describe pathophysiology and management of pituitary apoplexy.	(10)
Q. 3.	Discuss the various neural control of urinary bladder.	(10)
Q. 4.	Describe the role of Total intravenous anaesthesia in supratentorial surgery.	(10)
Q. 5.	Draw a neat labelled diagram of cervical spinal cord at C6.	(10)
Q. 6.	Describe the anatomical course and clinical localization of facial nerve.	(10)
Q. 7.	Describe the Blood brain barrier.	(10)
Q. 8.	Write a short note on Levetiracetam.	(10)
Q. 9.	Describe the anatomy of 3 ventricle.	(10)
Q. 10.	Describe various hypothesis involved in cerebral auto- regulation.	(10)
	X	

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PAPER TWO

CLINICAL NEUROSCIENCES, EMERGENCY NEUROSURGERY

[Time allotted: Three hours]		[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams wherever necessary.	
Q. 1.	Write short note on spontaneous lobar intracerebral hemorrhage.	(10)
Q. 2.	Describe acute hydrocephalus.	(10)
Q. 3.	Describe diffuse axonal injury.	(10)
Q. 4.	Enumerate the role of ICP monitoring in head injury.	(10)
Q. 5.	Describe Cauda equina syndrome.	(10)
Q. 6.	Write surgical management of Brain abscess.	(10)
Q. 7.	Describe the urgent spine surgery for traumatic paraplegia.	(10)
Q. 8.	Describe Intraventricular hemorrhage management.	(10)
Q. 9.	Write short note on venous infarct.	(10)
Q. 10.	Describe Decompressive craniectomy.	(10)
	XX	

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(Three years course)

PAPER THREE

OPERATIVE NEUROSCIENCES, NEUROPATHOLOGY, NEURO-MICROBIOLOGY, NEURO-RADIOLOGY AND NEUROLOGY

[Time allotted: Three hours] [M		: 100]
Note:	Attempt all questions Illustrate with suitable diagrams wherever necessary.	
Q. 1.	Classify pituitary tumours and describe the role of radiation therapy in pituitary tumours.	(10)
Q. 2.	Write the clinicoradiological features and management of a vertebral haemangioma.	(10)
Q. 3.	Describe the surgical corridors to brainstem lesions.	(10)
Q. 4.	Describe regional anaesthesia for spine surgery.	(10)
Q. 5.	Write insular glioma-classification and management.	(10)
Q. 6.	Write short note on Periinsular hemispherotomy.	(10)
Q. 7.	Enumerate the surgical corridors to posterior 3 ventricular lesions.	(10)
Q. 8.	Describe expanded endonasal approach to skull base lesions.	(10)
Q. 9.	Describe Fisch type A approach.	(10)
Q. 10.	Describe endonasal transpterygoid approach	(10)
	X	

EXAMINATION, AUGUST - 2022

(Three years course)

PAPER FOUR

RECENT ADVANCES IN NEUROSCIENCES INCLUDING CLINICAL TRIALS

[Time allotted: Three hours]		[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams wherever necessary.	
Q. 1.	Write pathogenesis and the role of cisternostomy in diffuse brain swelling.	(10)
Q. 2.	Write WHO classification (5th edition, 2021) of glioma.	(10)
Q. 3.	Describe intraoperative monitoring in spinal cord surgery.	(10)
Q. 4.	Describe the role of fluorescence and ICG in brain surgery.	(10)
Q. 5.	Write short note on Brain death.	(10)
Q. 6.	Describe Kaplan Meier curve.	(10)
Q. 7.	Write Lenke classification of scoliosis.	(10)
Q. 8.	Describe the middle cerebral artery aneurysms-classification and types of cl	ips used. (10)
Q. 9.	Write short note on MOMS TRIAL.	(10)
Q. 10.	Write a short note on Neurological Society of India.	(10)
	X	