

D.M. DEGREE EXAMINATION, MARCH 1990.

(Higher Specialities)

Branch I — Neurology

BASIC SCIENCES

Time : Three hours.

Answer ALL the questions.

1. Discuss the current concepts of pain perception.
 2. Discuss the pathogenesis of brain oedema.
 3. Write short notes on :
 - (a) Neuro-transmitters in normal sleep.
 - (b) Pathology of Alzheimer's disease.
 - (c) Monoclonal antibodies.
 - (d) Neural plasticity.
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September-1990

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D.M. DEGREE EXAMINATION, SEPTEMBER 1990.

(Higher Specialities)

Branch I — Neurology

Paper I — NEUROLOGY — BASIC SCIENCES

Time : Three hours.

Answer ALL the questions.

1. Describe the vascular supply of spinal cord.
 2. Describe the functional anatomy of ocular motor system.
 3. Write short notes on :
 - (a) Nerve growth factor.
 - (b) Role of histochemistry in the diagnosis of neuromuscular disorders.
 - (c) Neurotransmitters in sleep.
 - (d) Genetic counselling.
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D.M. DEGREE EXAMINATION, MARCH 1991.

(Higher Specialities)

Branch I — Neurology

Paper I — NEUROLOGY — BASIC SCIENCES

Time : Three hours.

Answer ALL the questions.

1. Describe the functional anatomy of the cerebellum.
 2. Describe the physiology of neuromuscular transmission.
 3. Write short notes on :
 - (a) Pathology of spinal cord in amyotrophic lateral sclerosis.
 - (b) Trace metals in neurological diseases.
 - (c) Dystrophin.
 - (d) Basis of gate control theory of pain.
 - (e) Slow viruses and neurological disorders.
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D.M. DEGREE EXAMINATION, SEPTEMBER 1991.

Branch I — Neurology

Paper I — NEUROLOGY — BASIC SCIENCES

Time : Three hours

Answer ALL questions.

1. Discuss with illustrations the anatomical correlates of central language. Critically evaluate the function of right hemisphere in language in humanbeings.
 2. Describe the formation, circulation and functions of cerebro-spinal fluid.
 3. Write short notes on :
 - (a) Rosenthal fibres.
 - (b) Nerve conduction in normal conditions.
 - (c) 5-HT in Migraine.
 - (d) Inflammatory granuloma.
 - (e) Myelin basic protein.
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September-1992

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D. M. DEGREE EXAMINATION, SEPTEMBER 1992.

(Higher Specialities)

Branch I — Neurology

Paper I — NEUROLOGY — BASIC SCIENCES

Time: Three hours.

Maximum: 100 marks.

Answer ALL the questions.

1. Describe with suitable diagrams the normal anatomy and physiology of the neuro-muscular junction and the pathological changes observed in myasthenia gravis.
(25 marks)
 2. Write an essay on the mechanism of epileptogenesis and the propagation of epileptic activity.
(25 marks)
 3. Write short notes on : (5 × 10 = 50 marks)
 - (a) Archi-cerebellum
 - (b) N-methyl D-aspartate (NMDA) receptors
 - (c) Polysynaptic reflexes
 - (d) Endogenous pain control mechanisms
 - (e) Molecular genetics in Neurology.
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[PR 301]

Novmeber-1993

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch I — Neurology

(Old/New Regulations)

Paper I — NEUROLOGY — BASIC SCIENCES

Time : Three hours.

Maximum : 100 marks.

Answer ALL questions.

1. Describe the pathophysiology of venous infarction.
(25)
 2. Discuss the neuro-anatomical correlates of memory.
(25)
 3. Write short notes on :
 - (a) Lipohyalinosis.
 - (b) Lissaur's tract.
 - (c) Lithium.
 - (d) Serotonin.
 - (e) Prosencephalon. (5×10=50)
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[ND 101]

Novmeber-1994

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch I — Neurology

(Old/New Regulations)

Paper I — NEUROLOGY BASIC SCIENCES

Time : Three hours.

Maximum : 100 marks.

Answer ALL questions.

1. Describe functional anatomy of oculomotor supra-neuclear pathways. (25)
2. Discuss the mechanism of spinal shock in a paraplegic. Describe the recovery pattern in such cases. (25)
3. Write short notes on :
 - (a) Spreading depression of lead.
 - (b) Sympathetic skin response.
 - (c) Dystrophin.
 - (d) Gabapentine.
 - (e) Axoplasmic transmission.

(5 × 10 = 50)

April-1995

B 1011

D.M. DEGREE EXAMINATION:

(Higher Specialities)

Branch I -- Neurology

(Old/New Regulations)

Paper I -- NEUROLOGY -- BASIC SCIENCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Describe the pathophysiology of parkinsonism. (25)

What are the various disconnection syndromes? Discuss their anatomical basis and presentation in brief. (25)

Write short notes on : (5 x 10 = 50)

- (a) Gene mapping.
 - (b) Porphyrine metabolism.
 - (c) Mechanism of maintenance of muscle tone.
 - (d) Monoclonal antibodies.
 - (e) Neural transplants in Parkinson's disease.
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D.M. DEGREE EXAMINATION
(Higher Specialities)
Branch I - NEUROLOGY
(Old/New Regulations)

Paper I - NEUROLOGY - BASIC SCIENCES

Time: Three hours

Max. marks:100

Answer All Questions

1. Discuss the Neurochemical aspects of extra pyramidal disorders. (25)
 2. Discuss the congenital abnormalities seen in relation to Neural Tube formation and Neural migration. (25)
 3. Write short notes on:
 - (a) Single fibre E.M.G.
 - (b) Triphasic waves on E.E.G.
 - (c) Narcolepsy
 - (d) P-300
 - (e) Saccadic eye movements (5x10=50)
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D.M. DEGREE EXAMINATION**(Higher Specialities)****Branch I - Neurology****(Revised Regulations)**

**Paper I - BASIC SCIENCES-(CONSISTING OF NEUROANATOMY,
NEURO-PHYSIOLOGY, NEURO-PATHOLOGY, NEURO-
CHEMISTRY & ELECTRO NEURO-PHYSIOLOGY)**

Time: Three hours**Max. marks:100****Answer All Questions**

1. Discuss the mechanisms and prevention of neuronal death. (25)
2. Write an essay on functional neuro imaging. (25)
3. Write short notes on:
 - (a) 5-HT Receptors
 - (b) Neuro pathology in Schizophrenia
 - (c) Magneto Encephalography
 - (d) Central Modulation of Nociception
 - (e) Genetic linkage analysis.

(5x10=50)

MP 01

April-1997

D.M.DEGREE EXAMINATION

(Higher Specialities)

Branch I -NEUROLOGY

(Revised Regulations)

Paper I - BASIC SCIENCES

Time: Three hours

Max.marks:100

Answer All questions

1. Discuss the structure and functions of Cerebellum. Discuss briefly the pathophysiology of cerebellar signs. (25)
2. Discuss the immunological basis of muscle diseases with special emphasis on novel therapeutic principles. (25)
3. Write briefly on:
 - (a) Genesis of epileptic focus
 - (b) Free radicals
 - (c) Prion
 - (d) Meta analysis
 - (e) Wallerian degeneration. (5x10=50)

October-1997

MS 01

DM Neurology Examination
(Higher Specialities)
Branch I (Neurology)
Revised Regulations

Paper I- Basic Sciences

Time: Three Hours

Max Marks 100

Answer all questions

1) Discuss urinary bladder innervation with relevance to the neurogenic bladder dysfunctions and therapeutic management. (25)

2) Discuss the anatomy and physiology of autonomic nervous system and tests of autonomic function. (25)

3) Write briefly on:

a) parabrachial reticular formation

b) Nerve growth factor

c) Opioid receptors

d) D2 receptors

e) Clinical anatomy of median nerve.

(5x10=50)

April-1998

SV 01

D.M. DEGREE EXAMINATION
(Higher Specialities)
Branch I - Neurology
(Revised Regulations)

Paper I - BASIC SCIENCES

Time: Three hours

Max.marks:100

Answer All Questions

1. Describe the neuroanatomy of cerebellum and its role in regulating tone and equilibrium. (25)
2. Discuss the physiology and neurochemistry of sleep and wakefulness. (25)
3. Write briefly on:
 - (a) Third nerve nucleus and its connections
 - (b) Neuroanatomy of urinary bladder control
 - (c) Mechanism of gaze control
 - (d) Anatomic organization of spinal
 - (e) Neuromuscular function.

(5x10=50)

October-1998

[SM 001]

D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch I — Neurology

(Revised Regulations)

Paper I — BASIC SCIENCES

Time : Three hours

Maximum 100 marks

Answer ALL questions.

1. Draw and label, and describe the structure of Pons.
Discuss the clinico-pathological correlation of various lesions in the pons, producing neurological deficit. (25)
2. Discuss the biochemical aspect of memory. Describe the biochemical changes reported in Alzheimer's disease. (25)
3. Write brief note : (5 × 10 = 50)
 - (a) Genetics of neurofibromatosis.
 - (b) Cerebral Oedema.
 - (c) Conduction block.
 - (d) Kindling phenomenon.
 - (e) Tremors in Parkinsonism.

October-1999

[KA 001]

Sub. Code : 1101

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch I — Neurology

(Revised Regulations)

Paper I — BASIC SCIENCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss memory and enumerate various amnesic syndromes. (25)
2. Discuss the mechanism of Epileptogenesis. (25)
3. Write briefly on (5 × 10 = 50)
 - (a) V cranial nerve
 - (b) Functional anatomy of Basal ganglia
 - (c) Muscle Histochemistry
 - (d) CSF Dynamics
 - (e) Reticular Activating System.

April-2000

KB [001]

Sub. Code : 1101

D.M. DEGREE EXAMINATION.

Neurology

Paper I — BASIC SCIENCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the physiology of normal tone. Critically evaluate the treatment of spasticity. (25)
2. Discuss the functional anatomy of Corpus. Collosum and various disconnection syndromes. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Axonal transport
 - (b) Tau protein
 - (c) Animal models of epilepsy
 - (d) Blood supply of brainstem
 - (e) Histopathology of polymyositis.

October-2000

[KC 001]

Sub. Code : 110

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch I — Neurology

(Revised Regulations)

Paper I — BASIC SCIENCES

(CONSISTING OF NEURO ANATOMY, NEURO-
PHYSIOLOGY, NEURO PATHOLOGY,
NEURO CHEMISTRY AND ELECTRO NEURO
PHYSIOLOGY)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Draw diagram showing the ventricles and the CSF cisterns. How is CSF formed and absorbed? (25)
2. Describe the anatomical substrate of memory. What is the pathophysiology of memory disturbance. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Senile plaques
 - (b) Dopamine receptors
 - (c) Nystagmus
 - (d) H reflex
 - (e) Cardio-vascular autonomic functions tests.