April-2001

[KD 193] **Sub. Code : 2100**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XVIII — Psychiatry

Part I

Paper III — NEURO ANATOMY, NEURO PHYSIOLOGY AND GENETICS

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Describe the Anatomy and Physiology of the Limbic system and discuss the neurology of Emotional disturbances. (25)

2. Describe :

(a) Pathophysiology of spasticity

(b) Functional anatomy of choreoathelosis and dystoxia. (25)

3. Write notes on : (5 × 10 = 50)

(a) Asterexis

(b) Genetics of Huntington's disease

(c) Visual evoked potential

(d) Stretch reflex.

(e) Akinetic mutism.

November-2001

[KE 193] **Sub. Code : 2100**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XVIII — Psychiatry

Part I

Paper III — NEUROANATOMY, NEUROPHYSIOLOGY AND GENETICS

Time : Three hours Maximum : 100 marks

1. Discuss the anatomy of the basal ganglia and its connections in the control of motor activity. (25)

2. Discuss the anatomy of the temporal lobe and the molecular genetics of alzheimers disease. (25)

3. Write short notes on : (5 × 10 = 50)

(a) Locus coeruleus.

(b) Dorsomedial nucleus of thalamus.

(c) Triphasic waves.

(d) Calcium channels.

(e) Visual evoked potential.

March-2002

[KG 193] **Sub. Code : 2100**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XVIII — Psychiatry

Part I

Paper III — NEUROANATOMY, NEUROPHYSIOLOGY AND GENETICS

Time : Three hours -Maximum : 100 marks

Answer ALL questions.

1. Discuss the blood supply of the cerebral hemisphere. (25)

2. Discuss the physiology of memory. (25)

3. Write notes on : (5 × 10 = 50)

(a) Describe the neurological deficits that occur with lesions at various levels on the facial nerve with the aid of a diagram.

(b) Blood brain Barrier.

(c) Visual Evoked Potential.

(d) Sodium Channel.

(e) Southern blot test.

September-2002

[KH 193] **Sub. Code : 2100**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XVIII — Psychiatry

Part I

Paper III — NEUROANATOMY, NEUROPHYSIOLOGY AND GENETICS

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the formation and circulation of cerebrospinal fluid. (25)

2. Discuss the various stages of sleep in human beings. (25)

3. Write notes on : (5 x 10 = 50)

(a) Trace the visual pathway and mark the type of visual field defect that occur with lesion at various levels

(b) Acetyl Choline receptor

(c) Axoplasmic transport

(d) H Reflex

(e) Polymerase Chain Reaction (PCR) Test

April-2003

[KI 193] **Sub. Code : 2100**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XVIII — Psychiatry

Part I

Paper III — NEUROANATOMY, NEUROPHYSIOLOGY AND GENETICS

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the anatomy of the Cerebellum and its connections in the control of motor activity. (25)

2. Discuss the anatomy of parietal lobe and its functions. (25)

3. Write short notes : (5 × 10 = 50)

(a) Ascuate fasciculus

(b) PLEDS

(c) Trinucleotide repeats

(d) Polysomnography

(e) Dopareceptors.

[KJ 193] **Sub. Code : 2100**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XVIII — Psychiatry

Part I

Paper III — NEUROANATOMY, NEUROPHYSIOLOGY AND GENETICS

Time : Three hours — Maximum : 100 marks

Theory : Two hours and forty minutes — Theory : 80 marks

M.C.Q. : Twenty minutes — M.C.Q. : 20 marks

M.C.Q. must be answered **SEPARATELY** on the answer sheet provided as per the instructions on the first page of M.C.Q Booklet.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Write an essay on : (2 × 15 = 30)

1. Describe anatomy of pain pathways and give a brief account of neurotransmitters involved.

2. Discuss organization, physiology and regulation of normal sleep in human-being.

3. Write short notes on : (10 × 5 = 50)

(a) Cerebral dominance

(b) Stretch reflex

(c) CSF circulation

(d) Physiology of neuromuscular transmission

(e) Circle of Willis (Schematic diagram)

(f) Corpus callosum

(g) Regulation of muscle tone

(h) Blood brain barrier

(i) Visual pathway (Schematic diagram)

(j) Prenatal diagnosis.

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[KL 193] **Sub. Code : 2100**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XVIII — Psychiatry

Part I

Paper III — NEUROANATOMY, NEUROPHYSIOLOGY AND GENETICS

Time : Three hours — Maximum : 100 marks

Theory : Two hours and forty minutes — Theory : 80 marks

M.C.Q. : Twenty minutes — M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write an essay on : (2 × 15 = 30)

(1) Describe the anatomic basis of speech and language.

(2) Trace the visual pathway and list the visual field defects caused by lesions at different sites.

II. Write short notes on : (10 × 5 = 50)

(a) Blood supply of the internal capsule

(b) Thalamus

(c) Pupillary reflexes

(d) Handedness

(e) Dopamine

(f) Limbic system

(g) Neuromuscular junction

(h) Opioid peptides

(i) Trinucleotide repeats

(j) REM sleep.

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