

April-1994

[VM 1116]

M. D. DEGREE EXAMINATION

**Branch XVIII - PSYCHIATRY
REVISED REGULATIONS**

**Paper III Neuro anatomy Neuro Physiology
and Genetics.**

Time : Three hours

Max. Marks : 100

Answer ALL Questions.

1. Discuss, (with examples from skin, joint capsule, muscle, visceral receptors and special senses), how the general structure of a sensory receptor follows a similar pattern in all cases. What is the relationship between structure and specificity of sensory reception?

(25)

2. What are the various psychophysical methods of measuring sensation? Discuss the contributions of Weber, Fechner and Stevens to the measurement of sensation.

(25)

3. Write short notes on :

- a) Myelination in the central nervous system
- b) Circle of Willis
- c) Organisation of spinal reflexes
- d) Physiological illusions.
- e) The role of feed-back in error correction

(5 x 10 = 50)

SB 218

April-1995

M.D.DEGREE EXAMINATION

Revised Regulations

Branch XVIII PSYCHIATRY

Part -I

Paper III -Neuroanatomy Neuro Physiology and Genetics

Time: Three hours

Max. Marks: 90

Answer All Questions

1.Describe the parts of Temporal lobe with suitable illustrations. (20)

2.Discuss the pathophysiology of pain with specific reference to pain syndromes. (20)

3. Write short notes on :

- a) Hallucinations and illusions
- b) Cortical Blindness
- c) Long loop reflexes
- d) Kinesia paradoxica
- e) Tremor

(5 X10 = 50)

October-1986

PK 165

M.D. DEGREE EXAMINATION

Branch XVIII - Psychiatry
(Revised Regulations)

Part I

Paper III - NEUROANATOMY NEURO PHYSIOLOGY
& GENETICS

Time: Three hours

Max.marks:90

Answer All Questions

1. Describe the components and circuits of the limbic system with illustrations. (20)
2. Discuss the neurophysiology of sleep. (20)
3. Write briefly on:
 - (a) Action tremor
 - (b) Laws of heredity
 - (c) Wernicke's area
 - (d) Split brain syndrome
 - (e) Subcortical perception.

(5x10=50)

April-1997

MP 184

M.D. DEGREE EXAMINATION
Branch XVIII - Psychiatry
(Revised Regulations)

Part I

Paper III - Neuroanatomy, Neuro Physiology
and Genetics

Time: Three hours

Max. marks:90

Answer All Questions

1. Discuss the anatomy of the limbic system.
Describe the symptoms of limbic system
dysfunction. (20)
2. Discuss the maintenance of consciousness.
(20)
3. Write briefly on:
 - (a) Genetic aspects of Huntington's Chorea
 - (b) Anatomy of pupillary light reflex
 - (c) Broca's aphasia
 - (d) Anatomy of knee jerk
 - (e) Spinal cord circulation.

(5x10=50)

MS 182

M.D. DEGREE EXAMINATION

Branch XVIII - Psychiatry

(Revised Regulations)

Part I

Paper III - Neuroanatomy, Neurophysiology
and Genetics

Time: Three hours

Max. marks:90

Answer All questions

1. Discuss the anatomy of the Temporal lobe.
Write briefly on the symptoms of left
temporal lobe dysfunction. (20)
2. Discuss the physiology of co-ordination
of movements. (20)
3. Write briefly on:
 - (a) Genetic aspects of Juvenile
Myoclonic Epilepsy
 - (b) Anatomy of visual pathways
 - (c) Wernicke's Aphasia
 - (d) Anatomy of Plantar Response
 - (e) Vertebro-Basilar Circulation.

(5x10=50)

April-1998

SV 194

M.D. DEGREE EXAMINATION
Branch XVIII - Psychiatry
(Revised Regulations)

Part I

Paper III - NEUROANATOMY, NEUROPHYSIOLOGY
AND GENETICS

Time: Three hours

Max.marks:80

Answer All Questions

1. Discuss the topography of the cerebral cortex in reference to language functions.
(20)
2. Discuss the neurophysiology of sleep. (20)
3. Write briefly on:
 - (a) Deep nuclei of cerebellum
 - (b) Limbic system
 - (c) Gene therapy
 - (d) Circle of Willis
 - (e) Genetic aspects of Huntington's disease.

(5x10=50)

[SM 193]

October-1998

M.D. DEGREE EXAMINATION.

Branch XVIII — Psychiatry

(Revised Regulations)

Part I

**Paper III — NEUROANATOMY, NEUROPHYSIOLOGY
AND GENETICS**

Time : Three hours

Maximum : 90 marks

Answer ALL questions.

1. Discuss the neuroanatomy of the limbic system. Draw and label the circuit of Papez. (20)
 2. Discuss the neural basis of pain. (20)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Stages of sleep.
 - (b) Venous drainage of brain.
 - (c) Genetic counselling.
 - (d) Flexor spasms.
 - (e) Genetic linkage analysis.
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April-1999

[SG 193]

Sub. Code : 2066

M.D. DEGREE EXAMINATION.

Branch XVIII — Psychiatry

Revised Regulations

Part I

**Paper III — NEUROANATOMY,
NEUROPHYSIOLOGY AND GENETICS**

Time : Three hours

Maximum : 90 marks

Answer ALL questions.

1. What is aphasia? Describe different types of Aphasiae produced by various lesions of brain. (20)
 2. Describe applied anatomy of venous drainage of brain. Discuss clinical presentation of cavernous sinus thrombosis. (20)
 3. Write short notes on : (10 × 5 = 50)
 - (a) Magnetic EEG
 - (b) Somato sensor evoked responses
 - (c) Dyslexic child
 - (d) Migraine
 - (e) Genetics of neurofibromatosis.
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October-1999

[KA 193]

Sub. Code : 2066

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch XVIII — Psychiatry

Part I

Paper III — NEUROANATOMY,
NEUROPHYSIOLOGY AND GENETICS

Time : Three hours

Maximum : 80 marks

Answer ALL questions.

1. Describe Limbic System and its role in memory function. (20)
 2. What are Agnosias and Apraxias? Discuss their Anatomical correlates. (20)
 3. Write short notes on : (5 × 8 = 40)
 - (a) Kindling Phenomenon
 - (b) Role of opioid system in pain Thresh-Hold
 - (c) Genetic Aspect of Epilepsy
 - (d) Supra Nuclear control of Eye Movements
 - (e) Basal Ganglia.
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April-2000

[KB 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 : 90 marks

Answer ALL questions.

1. Discuss the neurological basis of consciousness. Classify the various causes of coma and describe their pathogenesis. (10 + 10 = 20)
 2. Describe
 - (a) The cortical control of eye movements
 - (b) Internuclear ophthalmoplegias with relevant diagrams. (10 + 10 = 20)
 3. Write notes on : (5 × 10 = 50)
 - (a) Dopa receptors
 - (b) Genetics of epilepsies
 - (c) Plantar reflex
 - (d) Trans cortical aphasias
 - (e) Tele-EEG monitoring.
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October-2000

[KC 193]

Sub. Code : 2100

M.D. DEGREE EXAMINATION.

Branch XVIII — Psychiatry

(Revised Regulations)

Part I

Paper III — NEUROANATOMY,
NEUROPHYSIOLOGY AND GENETICS

Time : Three hours

Maximum : 90 marks

Answer ALL questions.

1. Describe
 - (a) the cytoarchitecture of frontal lobe and its connections
 - (b) syndromes caused by frontal lobe lesions.
(10 + 10 = 20)
 2. Describe
 - (a) The physiology of sleep
 - (b) EEG changes in sleep
 - (c) Insomnic disorders. (10 + 5 + 5 = 20)
 3. Write notes on : (5 × 10 = 50)
 - (a) Positron emission tomography in migraine
 - (b) Genetics of mitochondrial disorders
 - (c) Spasticity
 - (d) Brain death
 - (e) Neurogenic bladder.
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