EXAMINATION FOR THE DIPLOMA IN PSYCHOLOGICAL MEDICINE, APRIL 1990.

Part I

NEUROANATOMY AND NEUROPHYSIOLOGY

Time : Three hours. Maximum : 50 marks.

Answer ALL the questions.

NEUROANATOMY

1. Describe the anatomy of deep cerebellar nuclei and cerebellar connections (10 marks)

2. Write notes on :
   (a) Hippocampal formation.
   (b) Locus ceruleus.
   (c) Supplementary motor area. (3 × 5 = 15 marks)

NEUROPHYSIOLOGY

3. Describe the physiology of pain. (10 marks)

4. Write notes on :
   (a) Evoked potential.
   (b) Dopamine.
   (c) Neurophysiological basis of memory.
   (3 × 5 = 15 marks)

EXAMINATION FOR THE POST-GRADUATE DIPLOMA IN PSYCHOLOGICAL MEDICINE (D.P.M.), SEPTEMBER 1990.

Part I

Paper I — NEUROANATOMY AND NEUROPHYSIOLOGY

Time : Three hours. Maximum : 50 marks.

Answer ALL questions.

NEUROANATOMY

1. Describe the anatomy of striatal afferent and efferent system. (10 marks)

2. Write notes on :

   (a) Amygdala.

   (b) Raphe nuclei.

   (c) Primary auditory area. (3 × 5 = 15 marks)

NEUROPHYSIOLOGY

3. Describe the physiology of hypothalamic control of anterior pituitary. (10 marks)

4. Write notes on :

   (a) Lateral hypothalamus.

   (b) REM sleep.

   (c) Acetylcholine. (3 × 5 = 15 marks)

OCTOBER 1991

EXAMINATION FOR THE POST-GRADUATE DIPLOMA IN PSYCHOLOGICAL MEDICINE (D.P.M.), OCTOBER 1991.

Part I

Paper I — NEUROANATOMY AND NEUROPHYSIOLOGY

Time : Three hours. Maximum : 50 marks.

Answer ALL the questions.

1. Describe the functional anatomy of frontal lobes. (10 marks)

2. Write notes on :

   (*a*) Hippocampus.

   (*b*) Corpus callosum.

   (*c*) Substantia nigra. (3 × 5 = 15 marks)

3. Discuss the functional relationships among elements of limbic system. (10 marks)

4. Write notes on :

   (*a*) Reticular activating system.

   (*b*) Serotonin.

   (*c*) Biochemical regulation of sleep. (3 × 5 = 15 marks)

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NOVEMBER 1993

[P R 5 1 7]

DIPLOMA IN PSYCHOLOGICAL MEDICINE.

Part I

Paper I

NEURO ANATOMY AND NEURO PHYSIOLOGY

Time : Three hours Maximum : 50 marks

Answer ALL questions.

(NEUROANATOMY)

1. Describe structural organization and major connections of thalamus. (10)

2. Write notes on :

   (a) Rexed laminae of spinal segment.

   (b) Extrapyramidal pathways.

   (c) Ventricular system. (3 × 5 = 15)

(NEUROPHYSIOLOGY)

3. Discuss the functions of the Hypothalamus. (10)

4. Write notes on :

   (a) Glia functions.

   (b) Opioids.

   (c) Sleep wakefulness cycle. (3 × 5 = 15)

APRIL 1994

[Vi.. 1241]

DIPLOMA IN PSYCHOLOGICAL MEDICINE

(Old Regulation)

Part I

Paper I — NEURO ANATOMY AND NEURO PHYSIOLOGY

Time : Three hours Maximum : 50 marks

Answer ALL questions.

(NEUROANATOMY)

1. Describe structural organization and major connections of Cerebellum. (10)

2. Write notes on : (3 x 5 = 15)

   (a) Myelination.

   (b) Structural organization of retina.

   (c) Limbic circuit.

(NEUROPHYSIOLOGY)

3. Discuss the functional organization of Autonomic Nervous System. (10)

4. Write notes on : (3 x 5 = 15)

   (a) Cluver–Bucy syndrome.

   (b) Muscle spindle.

   (c) Paradoxical sleep.

MS 335

OCTOBER 1997

DIPLOMA IN PSYCHOLOGICAL MEDICINE

(Old/New Regulations)

Part I

Paper I - NEURO-ANATOMY AND NEURO-PHYSICLOGY

Time: Three hours Max.marks:50

Answer All Questions

(NEURO-ANATOMY)

1. Describe the neuro chemical pathways in the central nervous system for nor-epinephrine, dopamine, serotonine and acetylcholine. (10)

2. Write briefly on:
   (a) Ventricles of the brain
   (b) Circle of Willis
   (c) Neuroglia. (3x5=15)

(NEURO-PHYSIOLOGY)

1. Discuss the functions of the parietal lobe. (10)

2. Write briefly on:
   (a) Aphasias
   (b) EEG rhythms during sleep
   (c) Wallerian degeneration. (3x5=15)

APRIL 1999

[SG 1543] Sub. Code : 3055

DIPLOMA IN PSYCHOLOGICAL MEDICINE EXAMINATION.

(Old/New Regulations)

Part I

Paper I — NEURO–ANATOMY AND NEUROPHYSIOLOGY

Time : Three hours Maximum : 50 marks

Answer ALL questions.

(NEURO–ANATOMY)

1. Describe the usual pathway with the help of an illustration. (10)

2. Write briefly on : (3 × 5 = 15)

(a) Venous system of brain.

(b) Hippo campus.

(c) Dopamine receptors.

(NEUROPHYSIOLOGY)

3. Discuss the functions of the temporal lobe. (10)

4. Write briefly on : (3 × 5 = 15)

(a) Alexia.

(b) Alpha rhythm in EEG.

(c) Spasticity

SEPTEMBER 1999

[KA 1543] Sub. Code : 3055

DIPLOMA IN PSYCHOLOGICAL MEDICINE EXAMINATION.

(Old/New Regulations)

Part I

Paper I — NEURO–ANATOMY AND NEUROPHYSIOLOGY

Time : Three hours Maximum : 50 marks

Answer ALL questions.

(NEURO–ANATOMY)

1. Describe the auditory pathway with the help of an illustration. (10)

2. Write short notes on : (3 × 5 = 15)
   (a) Limbic system
   (b) Internal carotid arterial system
   (c) Corpus callosum.

(NEURO–PHYSIOLOGY)

3. Discuss the functions of frontal lobe. (10)

4. Write briefly on : (3 × 5 = 15)
   (a) Apraxia
   (b) K–complexes
   (c) Rigidity.

MARCH 2000

[KB 1543] Sub. Code : 3055

DIPLOMA IN PSYCHOLOGICAL MEDICINE EXAMINATION.

(Old/New Regulations)

Paper I — NEURO ANATOMY AND NEURO PHYSIOLOGY

Time : Three hours Maximum : 50 marks

Answer ALL questions.

1. Discuss the connections of basal ganglia and its role in control of movement. (15)

2. Discuss the physiological role of hypothalamus. (15)

3. Discuss the role of Corpus Callosum in cerebral function and tests to detect its disorders. (10)

4. Write short notes on : (2 × 5 = 10)

(a) PLEDS

(b) U fibres.

SEPTEMBER 2000

[KC 1543] **Sub. Code : 3055**

DIPLOMA IN PSYCHOLOGICAL MEDICINE EXAMINATION.

(Old/New Regulations)

Paper I — NEURO ANATOMY AND NEUROPHYSIOLOGY

Time : Three hours Maximum : 50 marks

Answer ALL questions.

1. Describe the anatomy of limbic system and its functions. (15)

2. Discuss the functions of the right hemisphere. (15)

3. What are the stages of sleep and discuss the electrophysiological differentiation of the different stages? (10)

4. Write short notes on : (2 × 5 = 10)

   (a) Periodic complexes

   (b) Ammon's horn.