

MARCH 2006

[KO 1543]

Sub. Code : 3073

**DIPLOMA IN PSYCHOLOGICAL MEDICINE
EXAMINATION.**

**Paper I — NEUROANATOMY AND
NEUROPHYSIOLOGY**

(INCLUDING GENETICS AND BIOCHEMISTRY)

Time : Three hours

Maximum : 50 marks

**Theory : Two hours and
fifty minutes**

Theory : 40 marks

M.C.Q. : Ten minutes

M.C.Q. : 10 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (1 × 15 = 15)

**(1) Discuss in detail the neurochemical pathways
of**

- (a) Norepinephrine**
- (b) Dopamine**
- (c) Serotonin**
- (d) Acetyl choline.**

II. Write short notes on :

(5 × 5 = 25)

- (a) Genetic aspects of Prader-Willi syndrome**
 - (b) Hypothalamic nuclei and its control of autonomic functions**
 - (c) Visual evoked potentials**
 - (d) Neurophysiological process of memory**
 - (e) Circadian rhythms.**
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SEPTEMBER 2006

[KP 1543]

Sub. Code : 3073

**DIPLOMA IN PSYCHOLOGICAL MEDICINE
EXAMINATION.**

**Paper I – NEUROANATOMY AND
NEUROPHYSIOLOGY**

(INCLUDING GENETICS AND BIOCHEMISTRY)

Time : Three hours

Maximum : 50 marks

**Theory : Two hours and
fifty minutes**

Theory : 40 marks

M.C.Q. : Ten minutes

M.C.Q. : 10 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write Essay on :

**(1) Describe the blood supply of the brain and
Meninges. (15)**

**(2) Describe the Anatomy and pathophysiology
of Basal Ganglia (striato pallido nigral system). (10)**

II. Write Short notes on :

(3 × 5 = 15)

- (a) Limbic system**
 - (b) Medial Longitudinal Fasciculus (MLF)**
 - (c) Periaqueductal Gray.**
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MARCH 2007

[KQ 1549]

Sub. Code : 3073

**DIPLOMA IN PSYCHOLOGICAL MEDICINE
EXAMINATION.**

(For candidates admitted from the Academic Year
2004–05 onwards)

**Paper I — NEURO ANATOMY AND
NEUROPHYSIOLOGY
(INCLUDING GENETICS AND BIOCHEMISTRY)**

Time : Three hours

Maximum : 50 marks

**Theory : Two hours and
fifty minutes**

Theory : 40 marks

M.C.Q. : Ten minutes

M.C.Q. : 10 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Long Essay :

1. Describe the physiological anatomy of the limbic system and briefly mention its clinical importance. (15)
2. Describe the basal ganglia circuits and briefly mention the pathophysiological basis of movement disorders. (10)

II. Write short notes on :

(3 × 5 = 15)

- (a) Dopamine
 - (b) Huntington's chorea
 - (c) Memory.
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September 2008

[KT 1549]

Sub. Code: 3061

**DIPLOMA IN PSYCHOLOGICAL MEDICINE
EXAMINATION.**

**Paper I – NEURO ANATOMY AND NEUROPHYSIOLOGY
(INCLUDING GENETICS AND BIOCHEMISTRY)**

(For Candidates admitted during 2005-06)

Q.P. Code : 343061

Time : Three hours

Maximum : 50 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 15 = 30)

1. Describe the Anatomy of Basal Ganglia and discuss the significance of Basal ganglia Dysfunction in Psychiatric Disorders.
2. Describe the neurophysiology of sleep and classify sleep disorders.

II. Write short notes on : (4 X 5 = 20)

1. Hypothalamus.
 2. Genetic Counseling.
 3. Cholecystokinin.
 4. Long Term Potentiation
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MARCH 2009

[KU 1549]

Sub. Code: 3061

**DIPLOMA IN PSYCHOLOGICAL MEDICINE
EXAMINATION.**

**Paper I – NEURO ANATOMY AND NEUROPHYSIOLOGY
(INCLUDING GENETICS AND BIOCHEMISTRY)**

(For Candidates admitted from 2004-05 to 2005-06)

Q.P. Code : 343061

Time : Three hours

Maximum : 50 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 x 15 = 30)

1. Discuss the biochemical theories of Depression.
2. Describe the anatomy of basal ganglia and its significance in movement disorders.

II. Write short notes on :

(4 x 5 = 20)

1. Neuroplasticity.
2. Endomorphins.
3. Dependence.
4. Metals in psychiatry.
