

M.Sc. ANATOMY DEGREE EXAMINATIONS**(For Candidates admitted from 2008-2009 regulations)****PAPER III – HISTOLOGY, NEURO-ANATOMY & ANATOMICAL TECHNIQUES****Q.P. Code: 281003****Time : Three Hours****Maximum : 100 marks****Answer ALL questions****I. Elaborate on:**

Pages (Max.)	Time (Max.)	Marks (Max.)
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1. Compare the histological aspects of the various organs of the GASTRO INTESTINAL TRACT given below:

17	40 min.	20
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- Oesophagus
- Stomach
- Small intestine and
- large intestine.

[02+06+09+03=20]

2. Describe the SULCI & GYRI of the BRAIN under the following headings:

17	40 min.	20
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- Supero lateral surface.
- Medial surface and
- Inferior surface.

[10+05+05=20]**II. Write notes on :**

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|--|---|---------|---|
| 1. Method of Preparation of HAEMATOXYLIN SOLUTION. | 4 | 10 min. | 6 |
| 2. Steps for MODEL MAKING. | 4 | 10 min. | 6 |
| 3. EMBALMING PROCEDURE-Conventional method. | 4 | 10 min. | 6 |
| 4. Method of PRESERVING a given SPECIMEN. | 4 | 10 min. | 6 |
| 5. Changes in lining epithelium of the uterus in age process. | 4 | 10 min. | 6 |
| 6. Types of MICROTOME & their usages. | 4 | 10 min. | 6 |
| 7. Explain the method of HONING. | 4 | 10 min. | 6 |
| 8. FOLDS OF DURAMATER - Their attachments and enclosed venous sinuses. | 4 | 10 min. | 6 |
| 9. Emissary veins. | 4 | 10 min. | 6 |
| 10. LATERAL VENTRICLE – its parts, relations communications. | 4 | 10 min. | 6 |

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1. Describe in detail the blood supply to the brain.

What is Blood Brain Barrier. Add a note on the applied aspect of the vascular supply to the brain.

17	40 min.	20
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2. Describe the external and internal features of Medulla oblongata.

Indicate the sites of emergence of cranial nerves from the medulla oblongata. Add a note on the clinical anatomy of medial and lateral medullary syndromes.

17	40 min.	20
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II. Write Notes on:

- | | | | |
|---|---|---------|---|
| 1. Reticular formation. | 4 | 10 min. | 6 |
| 2. Tectum of the Midbrain. | 4 | 10 min. | 6 |
| 3. Components and functions of the basal ganglia. | 4 | 10 min. | 6 |
| 4. Nucleus of the Oculomotor nerve. | 4 | 10 min. | 6 |
| 5. Staining methods for plasma cells. | 4 | 10 min. | 6 |
| 6. Double impregnation technique in histology. | 4 | 10 min. | 6 |
| 7. Structure and functions of neuroglial cells. | 4 | 10 min. | 6 |
| 8. Polarizing microscope. | 4 | 10 min. | 6 |
| 9. Mounting of wet specimens in the museum. | 4 | 10 min. | 6 |
| 10. Hypothalamus and its functions. | 4 | 10 min. | 6 |

[LD 1013]

OCTOBER 2013

Sub. Code: 1003

M.Sc. ANATOMY DEGREE EXAMINATIONS

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PAPER III – HISTOLOGY, NEURO-ANATOMY & ANATOMICAL TECHNIQUES

Q.P. Code: 281003

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Give a detailed account on the microscopic features of Endocrine glands.
2. Describe in detail about the vascular supply of Brain with its applied anatomy.

II. Write notes on:

(10 x 6 = 60)

1. Histology of Ovary.
2. Fixatives.
3. Functional areas of Cerebrum.
4. Lateral ventricle.
5. Vital Staining.
6. Microscopic anatomy of Mixed salivary gland.
7. Nuclei of Thalamus.
8. Histology of Cardiac Muscle.
9. Histology of Cerebellum.
10. Mounting of Museum specimens.
