**M.Sc. [Medical Anatomy]**

**BF/2016/03**

# General Anatomy, Neuro Anatomy, Gross Anatomy including Applied Anatomy, of the Head, Neck, Brain & Upper Limb

#  [Paper - I]

**M.M. : 100 Time : 3 Hours**

*Note : Attempt all questions.*

 *Draw suitable diagrams wherever necessary.*

1. Write about the development and muscles attached to Hyoid Bone [10]

2. Discuss the location, ganglia and distribution of Cervical Sympathetic Chain. [10]

3. Describe Inferior Alveolar Nerve in reference to its origin, course, distribution and applied anatomy [10]

4. Discuss the formation, termination and nature of Medial Lemniscus. [10]

5. Draw and Label :- [2x5=10]

(a) Horizontal section of Cerebral hemisphere at the level of Interventricular foramen.

(b) Cutaneous nerve supply of Hand.

6. Describe the synovial sheaths and retinaculae around Wrist. [10]

7. Define Supination and Pronation. Write about the Joints and Muscles responsible for these movements. [10]

8. Describe the parts and blood supply of a Growing Long Bone. [10]

9. Explain the functional components and nuclei of the Trigeminal Nerve. [10]

10. Write the applied anatomy of :- [2x5=10]

(a) Cerebellar Dysfunctions.

(b) Lesions at the level of Optic Tract.

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# General Embryology, Gross Anatomy including

# Anatomy of Abdomen, Thorax and Lower Limb

#  [Paper - II]

**M.M. : 100 Time : 3 Hours**

*Note : Attempt all questions.*

 *Illustrate your answers with suitable diagrams.*

1. *Explain the process of Spermatogenesis. Draw a schematic diagram to show.*

 [6+4=10]

*2. Discuss the gross anatomy of Uro-Genital Diaphragm.*  [10]

*3. Describe the ganglia and branches of Lumbar and Pelvic part of sympathetic chain.* [10]

*4. Describe the gross anatomy, relations and sinuses of Pericardium.*  [10]

*5. Explain the mechanism of Respiration.*  [10]

*6. Describe the peritoneal reflections, relations and blood supply of Pancreas.*  [10]

*7. Write Short notes on :-.* [5+5=10]

1. *Popliteus*
2. *Obturator Nerve*

*8. Discuss the movements of Inversion and Eversion. Mention the muscles and joints responsible for these movements.*  [10]

*9. Explain the formation, relations and applied implications of Pouch of Douglas.*  [10]

*10. Write about the formation and functions of Corpus Luteum.*

[10]

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# Microscopic Anatomy and Regional (systemic) Embryology

#  [Paper - III]

**M.M. : 100 Time : 3 Hours**

*Note : Attempt all questions.*

 *Illustrate your answers with suitable diagrams.*

*1. Discuss microanatomy of Hypophysis Cerebri. Add a note on its role on regulation of Steroid level in Blood.*  [10]

2. *Describe the techniques used in tracing neuronal pathways.*  [10]

3. *Describe the general plan of GIT and add a note on the microscopic features of Large Intestine*. [10]

*4. Discuss Histological features of the Mammary Gland in resting and active phase.* [10]

*5. Describe the* *microanatomy and functions of Cartilage.*  [10]

*6. Describe the formation and functions of Placenta.* [10]

*7. Discuss the developmental anomalies of rotation of Gut.*  [10]

*8. Describe the developmental and anomalies of Gall Bladder.*  [10]

*9. Describe the molecular regulation of the development of Kidneys.*  [10]

*10. Discuss the development of Gonads. Add a note on its developmental Anomalies.* [10]

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# Physical Anthropology, Medical Statistics, Medical Genetics

# and Recent Advances in Anatomy

#  [Paper - IV]

**M.M. : 100 Time : 3 Hours**

*Note : Attempt all questions.*

 *Illustrate your answers with suitable diagrams.*

*1. Describe Polygenic Inheritance.* [10]

*2. Describe Mutagens. Discuss their mechanism.* [10]

*3. Explain DNA Fingerprinting.* [10]

*4. Explain Java Man.* [10]

*5. Write essay on Homo Sapiens.* [10]

*6. Describe types of Pelvis. Describe evaluation of sex from pelvis.* [10]

*7. Explain Relative Ratio as per Medical Statistics.* [10]

*8. Describe Gene Therapy.* [10]

*9. Give Biological effects of CECT Scan.* [10]

*10. Explain Downs’ Syndrome.* [10]

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