

MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – FEBRUARY 2010****PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY**

Monday, February 01, 2010

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.**

1. Give an account of boundaries, recesses and contents of Ischioanal fossa. Add a note on its applied aspects.

(25 marks)

2. Classify the dural venous sinuses. Discuss in detail position, extent, tributaries and applied aspects of cavernous sinus.

(25 marks)

3. Give an detailed account of Arterial supply of heart. Add a note on applied aspects.

(25 marks)

4. **Write short notes on:**

4A. Direct inguinal hernia

4B. Collateral ligaments of Knee Joint

4C. Mid Palmar space

4D. Femoral sheath

4E. Hyoglossus muscle

(5×5 = 25 marks)



MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – FEBRUARY 2010****PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS**

Tuesday, February 02, 2010

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.**

1. Discuss in detail the cleavage of zygote and implantation of the blastocyst. Write a note on abnormal implantation.

(25 marks)

2. List the derivatives of branchial arches. Add a note on their abnormal development.

(25 marks)

3. Describe the microscopic anatomy of uterus during different phases of menstrual cycle and correlate with the microscopic anatomy of the ovary.

(25 marks)

4. **Write short notes on:**

- 4A. Chorionic villous sampling
4B. Procedure of chromosomal analysis
4C. Silent DNA
4D. Golgi apparatus
4E. Microscopic anatomy of capillaries

(5×5 = 25 marks)

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MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – FEBRUARY 2010**
PAPER III: NEUROANATOMY AND RECENT ADVANCES

Wednesday, February 03, 2010

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ **Answer ALL the questions.**

✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.**

1. Describe the arterial supply and venous drainage of cerebrum. Add a note on its applied aspects.

(25 marks)

2. Describe the anatomy and connections of the cerebellum. Add a note on its functional disorders.

(25 marks)

3. Describe the origin, course, relations and distribution of hypoglossal nerve. What are the effects of its injury?

(25 marks)

4. **Write short notes on:**

4A. Corticospinal tract

4B. Substantia nigra

4C. Inferior horn of lateral ventricle

4D. Neuro – histological staining

4E. Neurobiotaxis

(5×5 = 25 marks)

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