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MANIPAL ACADEMY OF HIGHER EDUCATION
FIRST MBBS DEGREE EXAMINATION – AUGUST 2019
SUBJECT: ANATOMY: PAPER – I (ESSAY)

Tuesday, August 13, 2019

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **All questions are compulsory.**

✍ **Illustrate your answers with diagrams and flow charts wherever appropriate.**

1. Describe the pituitary gland under gross anatomy, histology, development and applied anatomy.

(3+3+2+2 = 10 marks)

2. A 72-year-old hypertensive woman developed sudden loss of sensation on left side of her body. On clinical examination there was tactile hyperesthesia, left sided anesthesia and hemiparesis with Babinski sign positive. Radiological investigations revealed cerebrovascular accident involving the cerebrum. Based on your knowledge of Anatomy answer the following questions.

2A. Name the structure affected

2B. Name the parts of the structure.

2C. Fibers present and passing through

2D. Add a note on its arterial supply

(1+2+5+2 = 10 marks)

3. Short answers:

3A. Movements and muscles producing movements of the Temporomandibular Joint

3B. Transverse section of medulla at the level of sensory decussation

3C. Pulp spaces of hand

3D. Histology of sympathetic ganglion

3E. Trophoblast

3F. Arterial and nerve supply of the nasal septum

3G. Otic Ganglion

3H. Course and branches of axillary artery

3I. Lateral spinothalamic tract

3J. Median cubital vein

3K. Pronator teres of forearm

3L. Cutaneous nerve supply of the hand with neat labeled diagrams.

3M. Microscopic structure of elastic cartilage

3N. Somites

3O. Classification of chromosomes

(4 marks × 15 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
FIRST MBBS DEGREE EXAMINATION – AUGUST 2019
SUBJECT: ANATOMY: PAPER – II (ESSAY)

Wednesday, August 14, 2019

Time: 10:20 – 13:00 Hours

Maximum Marks: 80

- ☒ **All questions are compulsory. Write brief, clear, relevant and legible answers.**
 ☒ **Illustrate your answers with diagrams and flow charts wherever appropriate.**

1. A 17 year-old female presented at the hospital casualty with fever, vomiting and abdominal pain. She gave history of pain initially around the umbilicus which intensified over 6 - 8hrs and shifted to the right iliac region. On examination the right iliac fossa was warm and rigid to touch and rebound tenderness was present at the McBurney's point.
- 1A. What is the structure affected in this case?
 1B. What different positions could the structure involved lie & give its arterial supply?
 1C. Give the surface marking of McBurney's point
 1D. What is the anatomical basis for initial pain around the umbilicus and later in the region of the right iliac fossa?

(1+5+2+2 = 10 marks)

2. Describe the typical intercostal space under:
- 2A. Definition
 2B. Contents – Explain them in brief
 2C. Applied aspects

(1+7+2 = 10 marks)

3. Write short notes on:

- 3A. Trigone of urinary bladder
 3B. Ligaments of spleen
 3C. Fissures of right lung
 3D. Sinuses of pericardium
 3E. Microscopic structure of pituitary gland
 3F. Adductor magnus muscle
 3G. Capsule of hip joint
 3H. Lymphatic drainage of stomach
 3I. Sites of portocaval anastomosis
 3J. Sinus venosus and its fate
 3K. Anterior tibial artery
 3L. Medial longitudinal arch
 3M. End -arteries
 3N. Microscopic structure of liver
 3O. Meckel's diverticulum

(4 marks × 15 = 60 marks)

