Reg. No.

MANIPAL UNIVERSITY

FIRST MBBS DEGREE EXAMINATION - SEPT/OCT 2017

SUBJECT: ANATOMY: PAPER - I (ESSAY)

Monday, September 25, 2017

Time: 10:20 - 13:00 Hrs.

Maximum Marks: 80

- All questions are compulsory.
- Z Illustrate your answers with diagrams and flow charts wherever appropriate.
- 1. A 5-year old child swallowed a small part of a toy. Since the child began to suffocate she was rushed to the hospital, where on X-ray examination, impaction of foreign body in the larynx was confirmed. Answer the following questions.
- 1A. Which is the narrowest part of laryngeal cavity?
- 1B. Explain the interior of the larynx.
- 1C. Explain the blood supply and nerve supply of the larynx.

(1+5+4 = 10 marks)

- 2. Describe the shoulder joint under the following headings:
- 2A. Articular surfaces
- 2B. Ligaments
- 2C. Movements and muscles responsible for the movements

(2+4+4 = 10 marks)

- 3. Write short notes on:
- 3A. Blood supply of spinal cord
- 3B. Primitive streak
- 3C. Profunda brachii artery
- 3D. Flexor retinaculum
- 3E. Substantia nigra
- 3F. Oogenesis
- 3G. Turner's syndrome
- 3H. Histology of lymph node
- 3I. Ansa cervicalis
- 3J. Lateral geniculate body
- 3K. Blood supply and nerve supply of nasal septum
- 3L. Histology of cardiac muscle
- 3M. Corpus callosum
- 3N. Ophthalmic artery
- 30. Caudate nucleus

 $(4 \text{ marks} \times 15 = 60 \text{ marks})$

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MANIPAL UNIVERSITY

FIRST MBBS DEGREE EXAMINATION – SEPT/OCT 2017

SUBJECT: ANATOMY: PAPER – II (ESSAY)

Tuesday, September 26, 2017

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 48-year-old investment banker was brought to the emergency department with complaints of severe constricting type of chest pain. The pain radiated to the neck & left upper limb. On investigation an infarct was found in the inferior surface of the right ventricle. The conducting system of the heart was involved and the patient would require a pacemaker to set up the sinus rhythm. Based on the knowledge of blood supply to the heart:
- 1A. Describe the course, branches, & distribution of the coronary artery blocked in this case.
- 1B. Describe the arterial supply of the conducting system of heart.
- 1C. Give the nerve supply to the heart with reasons for pain radiating to the left upper limb.

(4+2+4 = 10 marks)

2. Describe the prostate gland under location, coverings, parts and lobes, structures within and applied anatomy

(1+2+3+2+2 = 10 marks)

- 3. Short answers:
- 3A. Portal vein
- 3B. Interior of anal canal
- 3C. Saphenous nerve
- 3D. Collateral ligaments of knee joint
- 3E. Microscopic structure of fallopian tube
- 3F. Development of pancreas
- 3G. Hepatorenal pouch
- 3H. Attachments of diaphragm
- 3I. Thoracic duct
- 3J. 1st rib
- 3K. Popliteal artery
- 3L. Peroneus longus muscle
- 3M. Microscopic structure of cornea
- 3N. Development of parathyroid glands
- 3O. Periosteum

 $(4 \text{ marks} \times 15 = 60 \text{ marks})$