Reg. No.		

MANIPAL ACADEMY OF HIGHER EDUCATION FIRST MBBS DEGREE EXAMINATION – OCTOBER 2020

SUBJECT: ANATOMY: PAPER - I (ESSAY)

Monday, October 12, 2020

Time: 10:20 - 13:00 Hrs.

Maximum Marks: 80

- All questions are compulsory.
- ✓ Illustrate your answers with diagrams and flow charts wherever appropriate.
- 1. A student yawned widely during an afternoon class. Following which to his surprise, he could not close his mouth. His jaw was stuck and he was rushed to the hospital.
- 1A. Name the joint that would have been dislocated
- 1B. Give the type of the joint, describe the bones and the ligaments taking part in it
- 1C. Name the movements of the joint and the muscles responsible for them

(1+4+5 = 10 marks)

2. Describe the brachial plexus in detail. Add a note on its applied aspects.

(7+3 = 10 marks)

- 3. Short answers:
- 3A. Nerve supply and blood supply of the scalp
- 3B. Lateral pterygoid muscle
- 3C. Lacrimal gland
- 3D. Lymphatic drainage of the breast
- 3E. Superficial palmar arch
- 3F. Microscopic structure of the optic nerve
- 3G. Microscopic structure of cardiac muscle
- 3H. Primitive streak
- 3I. Oogenesis
- 3J. Karyotyping
- 3K. Interpeduncular fossa
- 3L. Lateral medullary syndrome
- 3M. Blood supply of the internal capsule
- 3N. Third ventricle
- 3O. Labelled diagram showing the transverse section of the mid brain at the level of superior colliculus

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

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION FIRST MBBS DEGREE EXAMINATION – OCTOBER 2020

SUBJECT: ANATOMY: PAPER - II (ESSAY)

Tuesday, October 13, 2020

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. Describe the right atrium of the heart under: External features, internal features and development. Add a note on coronary sulcus.

(2+4+1+3 = 10 marks)

- 2. A 60 year old woman visited the doctor with complaints of something coming down her vagina and low backache. She had attained menopause 10 years ago and her obstetric history revealed that she had 4 vaginal deliveries. On examination the lower end of cervix was found to be at the level of vaginal orifice.
 - Based on the anatomy of this region, describe the organ involved under the following headings:
- 2A. Name of the organ and its parts
- 2B. Relations
- 2C. Arterial supply
- 2D. Supports

(2+3+1+4=10 marks)

3. Write short notes on:

- 3A. Origin, course, branches and distribution of superficial peroneal nerve
- 3B. Development and developmental anomalies of pancreas
- 3C. Boundaries and contents of adductor canal
- 3D. Portocaval anastomosis
- 3E. Microscopic structure of oesophagus
- 3F. Relations of right kidney
- 3G. Attachment and contents of lesser omentum
- 3H. Enumerate the mesodermal derivatives of first pharyngeal arch
- 31. Structure of secondary cartilaginous joint with examples
- 3J. Course and branches of a typical intercostal nerve
- 3K. Dorsalis pedis artery
- 3L. Prostatic part of urethra
- 3M. Histology of thyroid gland
- 3N. Saphenous opening
- 3O. Draw a neat labeled diagram of mediastinal surface of left lung

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