

**MANIPAL ACADEMY OF HIGHER EDUCATION
MELAKA MANIPAL MEDICAL COLLEGE (MANIPAL CAMPUS)
MBBS PHASE - I STAGE - I DEGREE EXAMINATION - APRIL 2021**

SUBJECT: ANATOMY - PART II (ESSAY)

Monday, April 26, 2021

Time : 10.30 a.m. - 12.30 p.m.

Max. marks : 60

- ✓ **Answer all the questions**
 - ✓ **Draw diagrams wherever appropriate**
- 1. Explain the uterus in detail. Add a note on its development.**

(8 marks)
 - 2. Explain the thyroid gland in detail. Add a note on its clinical anatomy.**

(7 marks)
 - 3. Explain the formation and fate of somites.**

(5 marks)
 - 4. A 20-year-old female was brought to the trauma centre with her mouth wide open. Her friends informed the doctor that just as she was yawning, another girl lightly punched her on the chin. After that, she was unable to close her mouth. The doctor closed the mouth of the patient easily without any surgical procedure.**
 - 4A. What is the possible reason for the condition of the patient?**
 - 4B. Name the ligaments of the joint involved.**
 - 4C. Name the movements possible at this joint and mention the muscles producing each of those movements.**

(5 marks)

- 5. A young female was admitted to the emergency department complaining pain in the region of umbilicus. She had repeatedly vomited, and her temperature and pulse rate were elevated. On examination, the muscles of the anterior abdominal wall in the right lower quadrant showed rigidity.**
- 5A. Name the part of digestive tract affected in the above case.**
- 5B. Mention the arterial supply, nerve supply and lymphatic drainage of that part.**
- 5C. Explain the reason behind pain in the umbilical region in the above case.**
- (5 marks)**
- 6. With a labelled diagram, illustrate the mediastinal relations and root of the right lung.**
- (5 marks)**
- 7. Explain the attachments, nerve supply and actions of gluteus maximus muscle.**
- (5 marks)**
- 8. Name the types of synovial joint based on shape of the articular surfaces. List one example of each.**
- (5 marks)**
- 9. Name the arteries supplying the heart and explain any one of them.**
- (5 marks)**

- 10. A 59-year-old woman comes to a local hospital for uterine cancer surgery. During hysterectomy surgeon ligated the uterine artery to prevent any hemorrhage. While ligating uterine artery surgeon mistakenly ligated one more important anatomical structure that is crossed by uterine artery.**

With your anatomical knowledge, name the anatomical structure that is crossed by the uterine artery and explain its microscopic structure with the help of a neat labelled diagram.

(5 marks)

- 11. Draw a neat labelled diagram of cross section of midbrain at the level of inferior colliculus.**

(5 marks)

