Tanta University

Master of Science in Anatomy& Embryology

Faculty of Medicine

2nd semester Examination

Human Anatomy & Embryology Dep. Genetics and Radiology Date: 26/2/2022

Time Allowed: 3 hours Total: 60 Marks





Master of Science in Anatomy& Embryology GENETICS AND RADIOLOGY SECOND SEMESTER

All questions to be answered

A- Genetics Molecular Biology

(30 Marks)

1- Define the followings:

(10 marks, each one 2 marks)

- A) Kinetochore
 - B) Trisoy 18.
 - C) Cri du Chat syndrome.
 - D) Telemoric end
 - E) polyploidy.
- 2- Mention the types of genes

(4marks)

3- A) Compare between mitochondrial and nuclear DNA

(4marks)

B) Discuss the types of chromosomes on the bases of centromere

(4 marks)

C) Describe the point mutation

(4 marks)

D) Discuss the transcription

(4marks)

B- RADIOLOGICAL ANATOMY

(30 Marks)

- 1- A) Enumerate the advantages and disadvantages of MRI. and Mention the neurological indication for cranial MRI (6 marks)
 - B) Mechanism, advantage &disadvantage of ultrasound (5 marks)
- 2- Draw diagrams of:

(12 marks)

- A. CT at the level of T5
- B. CT at the level of T10
- C. CT of the abdomen at the level L1
- D. CT of the abdomen at the level L5
- 3- Mention the indications of CT

(7 marks)

END OF THE EXAM

WITH BEST WISHES

Committee of the exam: Prof. Dr. Amal Halawa Prof. Dr. Mohamed ElSeidy Prof. Dr. Morsy Aboelgoud

Tanta University **Faculty of Medicine**

Master of Science in Anatomy& Embryology 2nd semester Examination

Human Anatomy & Embryology Dep.

Date: 21/2/2022

Time Allowed: 3 hours Total: 30 Marks

Number of Questions: 6 questions



Master of Science in Anatomy& Embryology **EMBRYOLOGY SECOND SEMESTER**

All questions to be answered

- 1- Enumerate Musculo-skeletal derivatives of pharyngeal arches? (5 marks)
- 2- Discuss the development of mammary gland. Enumerate its congenital anomalies?
- 3- Enumerate neural crest derivatives. Explain the role of neural crest cells in cranio-facial defects? (6 marks)
- 4- Explain the development of the spinal cord. Mention molecular regulation of its development? (5 marks)
- 5- Mention the development of the optic nerve. Explain molecular regulation and anomalies of eye development?
- 6- Discuss the development of saccule, cochlea, and organ of corti? (4 marks)

END OF THE EXAM WITH BEST WISHES

Committee of the exam: Prof. Dr. Amal Halawa, Prof. Dr. Mohamed ElSeidy, Prof. Dr. Morsy Aboelgoud.

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