Tanta University

Master of Science in Anatomy& Embryology 2nd semester Examination

Faculty of Medicine Human Anatomy & Embryology Dep.

Date: 24/8/2021

Time Allowed: 3 hours Total: 60 Marks

Number of Questions: 6 questions



Master of Science in Anatomy& Embryology Genetics & Radiological Anatomy Second Semester

A- GENETICS& MOLECULAR REGULATION (30 Marks)

1- Define the followings: (10 marks, each one two marks)

- A) Kinetochore.
- B) Chromatid
- C) Edward syndrome, Trisomy 18.
- D) Codon and anticodon
- E) Crossing over.
- 2- Mention Homologous and Non-Homologous Chromosomes (6marks)
- 3- A) What are the differences between mitochondrial and nuclear DNA?

(6marks)

B) Discuss the major 3 Types of RNA.

(4 marks)

C) Structural effects of mutation on the protein

(4 marks)

B- RADIOLOGICAL ANATOMY (30 Marks)

1- A) In table compare between CT and MRI.

(4 marks)

B) History of CT scan and the contrast agent used in it (4 marks)

2- Draw diagrams of:

(15 marks)

- A) CT of larynx B) CT At L3 C) CT at T5
- D) MRI of shoulder joint E) MRI of hip joint
- 3- Mention the advantages and disadvantages of MRI. (7 marks)

END OF THE EXAM WITH BEST WISHES

Committee of the exam: Prof. Dr. Amal Halawa Prof. Dr. Amal El Kattan

Prof. Dr. Mona Attia

Prof. Dr. Doaa Haiba

Tanta University

Master of Science in Anatomy& Embryology

Faculty of Medicine

2nd semester Examination

Human Anatomy & Embryology Dep.

Date: 19/8/2021

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- Explain the development of rhombencephalon

(6 marks)

2- Mention the development of the cerebellum

(5 marks)

3- Discuss the development of hair. Add a note on its abnormalities.

(4 marks)

- 4-Discuss the development of the teeth and its abnormality (5 marks)
- 5-Explain the derivatives of the outer layer of the optic cup. Mention its molecular regulation (5 marks)
- 6. Explain the development of the inner ear. What is the congenital deafness? (5 marks)

END OF THE EXAM WITH BEST WISHES

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