

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Tanta University
Faculty of Medicine

MSC. : Diagnostic Radiology, 1st Part

18-2-2018

Dep.

Radiation Physics

Time 3H

Examiner: Prof. Dr. Galal Zedan Farag

Faculty of Science /Physics Department
(45 M.)

Answer the following Questions:

1-Explain:

(10 M.)

- The physical meaning of the radiation attenuation,
- The different CT, and DXR- scanners generations.

2- Discuss:

(10 M.)

- The Piezoelectricity application in medicine, and
- The disadvantages of MRS technology.

3- "The PET/CT/MRI scanner provide physicians with superior Information for determining tissue characterizations, and Classifications with some of fatal errors. "Explain. (10 M.)

4- Discuss:

(15 M.)

- The methods of radiation dose reduction, and
- Radioactive decay.

والله ولي التوفيق

الإختبار الفيزيائي للإختبار النظري بسم [صام]
الأستاذة

Tanta University

22/2/2018

Faculty of Medicine

Time allowed : 3 hours

Radiodiagnosis Department (List 2013)

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Radiobiology & Istotopes examination == Master & Diploma degrees

All questions must be attempted

جميع الاسئلة اجبارية

- 1-Give an account on ideal isotope used in radio-diagnosis with mention of an example
(5 marks)
- 2- Give an account on the role of radioisotope in the evaluation of a patient with acute pulmonary embolism: isotope used, method and interpretation (5 marks)
- 3-Scintigraphic examination of routine liver scan (technique and diagnostic applications of different hepatic lesions) === 10 marks
- 4-Renal isotope scan: purpose, procedure and interpretation of results (5 marks)
- 5- Give an account on stochastic effect (5 marks)
- 6-Give an account on deterministic effect (5 marks)
- 7-Give an account on cell survival curve (5 marks)
- 8-Discuss the effect of radiation on reproductive system (5 marks)

Good Luck

الامتحان الشفوى يوم الاربعاء ٢٠١٨/٢/٢٧ بقسم الاشعة بالعيادة الشاملة

Tanta University

Written examination

Faculty of Medicine

Number of Questions: 9

Diagnostic Radiology Department

Total Marks: 90 Marks

20-2-2018

Time Allowed: 3 Hours.

MSc & Diploma Diagnostic Radiology, 1st part
Technology & Radiological anatomy

All questions are to be answered (10 Marked for each)

- 1- Plain X-Ray positions used for examination of T.M.J.
- 2- Plain X-Ray positions used for examination of sterno-clavicular joint.
- 3- Radiological anatomy of the aortic arch and carotid vessels.
- 4- Imaging of tracheo-oesophageal fistula.
- 5- Contrast media and technique of micturating cysto-urethrography.
- 6- Radiological anatomy of upper two cervical vertebrae.
- 7- Imaging of a case of intestinal obstruction.
- 8- Plain X-Ray positions used for examination sacro-iliac joint.
- 9- Plain X-Ray positions used for examination of Elbow joint.

Good Luck,

Oral examination and spots in 26-2-2018.