Tanta University

18/8/2018

Faculty of Medicine

Time allowed: 3 hours

Radiodiagnosis Department

Radiobiology & Istotopes examination == Diploma & Master degrees

All questions must be attempted (45 mark)

جميع الاسئلة اجبارية

1-Give an account on ideal isotope used in radio-diagnosis with mention of an example (5 marks)

2-Enumerate:

a: Sites of physiologic FDG uptake (2.5 marks)

b: PET/MRI advantages over PET/CT (2.5 marks)

3-Discuss in details scintigraphic examination of solitary thyroid nodule regarding technique of examination, kind of isotopes, types of the nodule and its underlying pathology (10 marks)

4-Bone scan in painful hip (5 marks)

5-Fate of irradiated cells (5 marks)

6-Classification of radiation damage (5 marks)

7-Energy of 200 Kev of X-ray equals energy of (......Kev) of neutron (5 marks)

8-Discuss effects of radiation on reproductive system (5 marks)

Good Luck

Tanta University

12/8/2018

Faculty of Medicine

Time allowed : 3 hours

Radiodiagnosis Department

Radiological anatomy & technology examination

Diploma & master degrees (total marks = 90)

All questions must be attempted (each question = 10 marks)

جميع الاسئلة اجبارية

1-Plain X-ray positions used for examination of upper three cervical vertebrae

2-Plain X-ray oblique views of the chest

3-Imaging of a case of acute abdomen

4-Radiological anatomy of the orbit

5-Contrast media & technique of cysto-urethrography

6-Discuss : Double contrast barium enema

7-Imaging of a case of pericardial effusion.

8-Plain X-ray positions used for examination of left hip joint.

9-Plain X-ray positions used for examination of femoral inter-condylar notch

Good Luck

الامتحان الشفوى يوم الاربعاء ١٠١٨/٨/١٩ بقسم الاشعة بالعيادة الشاملة الساعة الثامنة صباحا

يمن الرحيم	يسم الله الر
Tanta University	Radiation Physics
Faculty of Medicine	Time 3H
MSC・: Diagnostic Radiology, 1st Part	Examiner: Prof. Dr. Galal Zedan Farag
J=8-2018	Faculty of Science /Physics Department
Dep.	(45 M.)

Answer the following Questions:

1-Explain:

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(10 M.)

(a) The physical meaning of the radiation attenuation,

(b) The different CT, and DXR- scanners generations.

2- Discuss:

(10 M.)

(a) The Piezoelectricity application in medicine, and(b) 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. (\° M.)

4- Discuss:

(15 M.)

(a) The methods of radiation dose reduction, and

(b) Radioactive decay.

والله ولى التوفيق الإختار الشغوى عقب الإختبار النظرى بقب] الإحتار