

Tanta University  
Faculty of Medicine  
Radiodiagnosis Department

23/3/2021  
Time allowed : 3 hours  
(List 2013)

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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 temporo-mandibular joint. (10 marks)
- 2) Radiological anatomy of the para-nasal sinuses. (10 marks)
- 3) Plain X-ray positions used for examination of sterno-clavicular joint.(10 marks)
- 4) Contrast media and technique of Double contrast barium enema.(10 marks)
- 5) Radiological anatomy of upper limb venous system, imaging of a case of deep vein thrombosis.(10 marks)
- 6) Radiological anatomy of male urethra and technique of micturating cysto-urethrography. (10 marks)
- 7) Plain X-ray positions used for mammography.(10 marks)
- 8) Plain X-ray positions used for examination of the ankle joint. (10 marks)
- 9) Plain X-ray positions used for examination of upper three cervical vertebrae. (10 marks)

Good Luck



بسم الله الرحمن الرحيم

Tanta University  
Faculty of Medicine  
Diagnostic Radiology, 1st Part  
For Msc. & Dep. 21-03-2021  
٢٠٢١-٣-٢١

Radiation Physics  
Time 3H  
Examiner: Prof. Dr. Galal Zedan Farag  
Faculty of Science /Physics Department

### Answer the Following Questions

- 1- Explain the physical basis and concepts for: - 10 M.  
(a) The radiation absorption,  
(b) The CT scanner generations.
- 2- Discuss the Technology for: - 10 M. -  
(a) The NMR, and  
(b) The Piezoelectricity phenomena applications in  
Medicine.
- 3- Compare between: - - 10 M. -  
The PET/CT and MRI scanner for determining tissue  
Characterizations and Classifications.
- 4- Write on The applications in medicine for: - 15M. -  
(a) The radiation dose reduction, and  
(b) Radioactive protections methods.

ملاحظه هامه :

الشفوى والتطبيقى فى قسم الأشعة فور الانتهاء من النظرى

والله ولى التوفيق

استاذ لاده  
د. د. هلال زيان راجح

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د. محمد زيان

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