

**Tanta Faculty of Medicine**  
**Department of General Surgery**

**Master of Diagnostic Radiology (لائحة 2013)**  
**General Surgery Examination - October 2021**

**Time: 2 hours**

**Total marks: 120**

**All questions should be answered**

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**1-Causes, presentation and management of hypovolemic shock?**

**(40 marks)**

**2-Clinical picture, investigations and management of colonic carcinoma?**

**(40 marks)**

**3-Differential diagnosis, investigations and management of solitary thyroid nodule?**

**(40 marks)**

**Good Luck**

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الإمتحان الإكلينيكي والشفوى بقسم الجراحة العامة بالمستشفى التعليمى الفرنساوى الدور السابع  
يوم السبت ١٣ نوفمبر الساعة الثامنة صباحا

Examination for master Degree in radiodiagnosis  
Course Title: **RAD 8007**  
Date: 6-11-2021  
Term: October 2020  
Time Allowed: 3 hours  
Total Assessment Marks: 120



Tanta University  
Faculty of Medicine  
Department of:  
Pathology

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Questions Number	Marks
<b>Q1: Discuss the methods of spread of malignant tumors</b>	<b>20 marks</b>
<b>Q2 :Discuss the pathological differential diagnosis of breast mass</b>	<b>20 marks</b>
<b>Q3 : Give an account on the effect of total tissue radiation.</b>	<b>20 marks</b>
<b>Q4 : Discuss the complications of abscess</b>	<b>20 marks</b>
<b>Q5: Give an account on tuberculous osteomyelitis (source of infection, site of the lesion, complications)</b>	<b>20 marks</b>
<b>Q6: Describe the differential diagnosis of retrosternal mass.</b>	<b>20 marks</b>

**Examination Committee**  
Prof. Dr. Ahlam Aboelenin  
Prof. Dr. Khairia Gawesh  
Prof. Dr. Hanah Alshenawy  
Assist. Prof. Dr. Youmna Zamzam

Tanta University  
Faculty of Medicine  
Internal Medicine Department  
Master of Diagnostic Radiology  
[Bylaw 2013]  
October 2021



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All questions must be answered  
Time allowed: 2 hours  
Total marks: 120

Give an account on the following:

- 1- Causes, clinical picture, diagnosis and treatment of Cushing's syndrome. (40)
- 2- Differential diagnosis and management of hepatic focal lesions. (40)
- 3- Extra-articular manifestations and treatment of rheumatoid arthritis. (40)

يبدأ الإمتحان الشفوي والإكلينيكي في الساعة الثامنة صباحا يوم الثلاثاء  
الموافق ٢٠٢١/١١/٩ بمستشفى الأمراض الباطنة.

GOOD LUCK

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Tanta University  
Faculty of Medicine  
Internal Medicine Department  
Master of Diagnostic Radiology  
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GOOD LUCK

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Tanta University

Faculty of Medicine

Diagnostic Radiology & medical imaging department

2<sup>nd</sup> paper

M Sc Diagnostic Radiology Examination, 2<sup>nd</sup> part

(List 2013)

Time allowed : 3 hours Date : 2/11/2021 (marks = 210)

All questions must be attempted

جميع الاسئلة اجبارية

- 1- What are common causes of pulmonary embolism?  
Discuss the diagnostic role of plain roentgenograph,  
isotope scan and C.T. angiography. 60 mark
- 2- Diagnostic imaging of pancreatic cystic masses  
(50 marks)
- 3- Diagnostic imaging of metaphyseal bony tumors  
(50 marks)
- 4- Diagnostic imaging and differential diagnosis of single  
collapsed vertebra (50 marks)

Good Luck

**Tanta University**

**Faculty of Medicine**

**Diagnostic Radiology & medical imaging department**

**1<sup>st</sup> paper**

**Msc Diagnostic Radiology Examination, 2<sup>nd</sup> part**

**(List 2005)**

**Time allowed : 3 hours    Date : 17 /10/2021 (marks = 120)**

**All questions must be attempted**

**جميع الاسئلة اجبارية**

- 1- Diagnostic imaging of chest trauma.    (30 marks)**
- 2- Diagnostic imaging of renal cystic disease.    (30 marks)**
- 3- Diagnostic imaging of intracranial calcification.    (30 marks)**
- 4- Diagnostic imaging of vesicular mole.    (30 marks)**

**Good Luck**

Tanta University

22/8/2021

Faculty of Medicine

Time allowed : 3 hours

Radiodiagnosis Department

(List 2013)

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**Radiobiology & Istotopes examination == Master & Diploma**  
**degrees**

**(total marks = 45)**

**All questions must be attempted**

**جميع الاسئلة اجبارية**

- 1- Role of istopes scanning in diagnosis of common alimentary tract pathology. (5 marks)
- 2- Efect of radiation on a) the fetus(5 marks)  
b) Reproductive system. (5 marks)
- 3- Renogram: interpretation of normal and abnormal findings. (5 marks)
- 4- Bone scanning in painful hip hoint in children. (5 marks)
- 5- Give an account on a) radiochemical labeling and target organs, mention an example for each. (2.5 marks)  
b) Characters of ideal radioactive nucleids. (2.5 marks)
- 6- PET/CT artefacts and malignancies poorly detected on FDG PET (false negative). (5 marks)
- 7- Discuss radioprotection in details. (5 marks)
- 8- Describe factors affecting radiosensitivity of the cell and also relation between LET & RBE. (5 marks)

**Good Luck**

Tanta University

19/8/2021

Faculty of Medicine

Time allowed : 3 hours

Radiodiagnosis Department

(List 2013)

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Radiological anatomy & technology examination Diploma & master degrees  
(total marks = 90)

All questions must be attempted

جميع الاسئلة اجبارية

- 1- Plain X-ray positions used for examination of first and second cervical vertebra. (5 marks)
- 2- Plain X-ray positions used for examination of ankle joint. (10 marks)
- 3- Radiological anatomy of the cerebral circulation. (10 marks)
- 4- Contrast administration in patients on renal dialysis guidelines and discuss post contrast acute kidney injury (definition, risk factors and prophylaxis). (15 marks)
- 5- Contrast media and technique of micturating cystourethorgraphy. (10 marks)
- 6- Radiological anatomy of retroperitoneal spaces. (10 marks)
- 7- Give short account on digital subtraction angiography. (10 marks)
- 8- Imaging of a case of neonatal intestinal obstruction. (10 marks)
- 9- Plain X-ray positions used for examination of paranasal sinuses. (10 marks)

Good Luck



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Tanta University  
Faculty of Medicine  
Msc.: Diagnostic Radiology, 1st Part  
دور أغسطس ٢٠٢١  
٢٠٢١/٨/١٧

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

Answer the following Questions:

1-Explain:

- (a) The physical basic principles of Multislice helical CT.
- (b) The concepts of beam pitch and detector pitch.

2- Discuss:

- (a) Disadvantages of CT, and advantages of PET/CT.
- (b) The interaction of radiation with matter.
- (c) The sources of radiations, and x-ray.

3-Define :

- (a) Radioactive decay and its application in PET/CT.
- (b) Properties of different radiations.
- (c) Radiation detection methods.

4- Explain:

- (a) The infrasound, acoustic, and ultrasound.
- (b) The Piezoelectricity phenomena and its applications.

\* امتحان الفيزياء في عبارة الشامل بعد امتحان النظرى

Tanta University

Faculty of Medicine

Diagnostic Radiology & medical imaging department

2<sup>nd</sup> paper

MSC Diagnostic Radiology Examination, 2<sup>nd</sup> part

(List 2005)

Time allowed : 3 hours    Date : 23/10/2021 (marks = 120)

All questions must be attempted

جميع الاسئلة اجبارية

- 1- Diagnostic imaging of dysphagia. (30 marks)
- 2- Diagnostic imaging of degenerative disease of the spine & intervertebral discs. (30 marks)
- 3- Diagnostic imaging of pericardial effusion. (30 marks)
- 4- Diagnostic imaging of inflammatory bowel disease. (30 marks)

Good Luck

Tanta University

Faculty of Medicine

Diagnostic Radiology & medical imaging department

1<sup>st</sup> paper

M SC Diagnostic Radiology Examination, 2<sup>nd</sup> part

(List 2013 )

Time allowed : 3 hours Date : 30/10 /2021

(marks = 210 )

All questions must be attempted

جميع الاسئلة اجبارية

1- Discuss mechanism and types of hydrocephalus and describe its features in different imaging modalities

(60arks)

2-Diagnostic imaging of female mullerian duct anomalies

(50arks)

3- Diagnostic imaging and differential diagnosis of pulmonary ground glass opacities

(50arks)

4- Diagnostic imaging feature of hyperparathyroidism

(50 marks)

Good Luck