

# SAUDI RESIDENCY TRAINING PROGRAM

### **RADIOLOGY TECHNOLOGY & MEDICAL IMAGING**

**Final Written Examination** 

# **Examination Format:**

A Saudi board final specialty written examination shall consist of two papers each with 100-125 single best answer Multiple Choice Questions (MCQs). Up to 10% unscored MSQscan be added for calibration purposes.

### Passing Score:

The passing score is 70%. However, if the percentage of candidates passing the examination before final approval is less than 70%, the passing score must be lowered by one mark at a time aiming at achieving 70% passing rate or 65% passing score whichever comes first. Under no circumstances can the passing score be reduced below 65%.



Saudi Board Training Final Examination; Radiology Technology & Medical Imaging- 24-27 - v.1

الهيئة السعودية للتخصصات الصحية Saudi Commission for Health Specialties



### Suggested References:

#### **Diagnostic Ultrasound**

- 1. Textbook of Diagnostic Sonography, 8th Edition December 27, 2016, by Author: Sandra Hagen-Ansert. 2 Volume. Hardcover ISBN: 9780323353755. eBook ISBN: 9780323441889
- 2. Understanding Ultrasound Physics, 4th Edition 2012 by Sidney K. Edelman
- 3. Introduction to Vascular Ultrasonography: Expert Consult Online and Print 7th Edition by John Pellerito MD , Joseph F Polak MD MPH
- 4. Inside Ultrasound: Vascular Reference Guide 1st Edition by Gail P. Size

#### Nuclear Medicine

- 1. Physics in Nuclear Medicine by Simon R. Cherry and James A.Sorenson
- 2. European Nuclear Medicine Guide 2020 Edition
- 3. Essentials of Nuclear Medicine and Molecular Imaging
- 4. Fundamentals of Nuclear Pharmacy for Saha, Gopal. Seventh Edition 2017

### <u>CT/MRI</u>

- 1. Computed Tomography for Technologists: A Comprehensive Text, 2018, by Lois E. Romans. Lippincot Williams & Wilkins.
- 2. Computed Tomography: Physical Principles, Clinical Applications, and Quality Control. Paperback, 3rd Edition, by Euclid Seeram. Saunders.
- Computed Tomography for Technologists: Exam Review. Paperback, 1st edition, by Lois E. Romans. Lippincott Williams & Wilkins.
- 4. Imaging Atlas of Human Anatomy 6th Edition (Weir & Abrahams').
- CT & MRI Pathology: A Pocket Atlas. Paperback, 1st edition, by Michael L. Grey and Jagan M. Ailinani. McGraw-Hill Education
- 6. Ctisus.com
- 7. Mdct.com.au
- 8. MRI in Practice, Paperback, 5th eidition, by Catherine Westbrook. Wiley-Blackwell.
- 9. MRI Parameters and Positioning, Paperback, 2nd dition, by Torsten B. Möller. TPS.
- 10. CT & MRI Pathology: A Pocket Atlas. Paperback, 1st edition, by Michael L. Grey and Jagan M. Ailinani. McGraw-Hill Education





- 11. MRI from picture to proton by Donald W. McRobbie, 2<sup>nd</sup> edition
- 12. Handbook of MRI Technique, 5<sup>th</sup> edition by Catherine Westbrook.

#### Note:

This list is intended for use as a study aid only. SCFHS does not intend the list to imply endorsement of these specific references, nor are the exam questions necessarily taken solely from these sources.





# **Blueprint Outlines:**

#### **Diagnostic Ultrasound:**

No.	Sections	Percentage
1	Physics, Instruments, and Artifacts	13%
2	Bioeffect	5%
3	Upper and Lower Abdomen	18%
4	Liver and Kidneys Transplanted	5%
5	Ob/Gyn Procedures	7%
6	Cerebrovascular & TCD Procedures	6%
7	Upper and Lower Peripheral Arteries	5%
8	Upper and Lower Peripheral Veins	5%
9	Breast	5%
10	Small parts (Neck & Scrotum)	10%
11	Musculoskeletal	5%
12	Gastrointestinal and Abdominal Wall	5%
13	Neonatal Head	5%
14	Advanced procedures (e.g. elastography & contrast imaging)	6%
	Total	100%

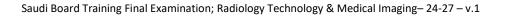
Saudi Board Training Final Examination; Radiology Technology & Medical Imaging-24-27 - v.1



 $\mathbf{X}$ 

# MRI and CT:

No.	Sections	Percentage
1	Physics & Instrumentation	12%
2	Radiation Safety & MR Safety	10%
3	Head & Neck	12%
4	Spine	10%
5	Vascular Imaging	10%
6	Body	10%
7	Musculoskeletal	10%
8	Breast	7%
9	Advance Technique	6%
10	Image Artifact	6%
11	Postprocessing	7%
	Total	100%





#### Nuclear Medicine:

No.	Sections	Percentage
1	Physics and Instruments	15%
2	Radiopharmacy Lab (Hot Lab)	28%
3	SPECT-CT Procedures	11%
4	Conventional Procedures WB + Statics + Dynamic	12%
5	Therapy	11%
6	Cardiac Procedures	11%
7	PET-CT	12%
	100%	

#### Note:

- Blueprint distributions of the examination may differ up to +/-5% in each category.
- Percentages and content are subject to change at any time. See the SCFHS website for the most up-to-date information.
- Research, Ethics, Professionalism and Patient Safety are incorporated within various domains.



Saudi Board Training Final Examination; Radiology Technology & Medical Imaging-24-27 - v.1