



# DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

GUIDELINE

Department: Professional Licensing Department

Document Identifier: GL/HCP/078/04



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### INTRODUCTION

As part of the requirement to be licensed in DHCC, professionals may be subjected to examinations pertaining to the relevant specialty. In line with this requirement this guide summarizes the exam duration, Format, number of questions, passing score, exam centers, exam code, content areas and reference books.

### 1. PURPOSE

- |     |  |
|-----|--|
| 1.1 | The purpose of this guide is to provide guidance to the applicant to establish eligibility of the professional to obtain license in DHCC |
|-----|--|

### 2. SCOPE OF APPLICATION

- |      |  |
|------|--|
| 2.1  | Applicants can only register for the exam after the application review process has been completed. The applicant will then be given an Eligibility ID to register for the exam. (For details on eligibility please refer to guidelines available on the link: <a href="https://dhcc.ae/professional/faq">https://dhcc.ae/professional/faq</a> .) For further information, please refer to Flowchart 1 below. |
| 2.2  | To apply for a DHCA License, please access this link: <a href="https://dhcc.ae/professional/professional-services">https://dhcc.ae/professional/professional-services</a>  |
| 2.3  | To register for the DHCA Exam, please access this link: <a href="https://www.prometric.com/en-us/clients/dhca/Pages/landing.aspx">https://www.prometric.com/en-us/clients/dhca/Pages/landing.aspx</a>  |
| 2.4  | Passing the DHCA Exam does not automatically guarantee a license to practice in DHCC. The license issuance process will be subject to the verification of the candidate's credentials and submission of all necessary documents.   |
| 2.5  | DHCA Exam Eligibility ID is valid only for 3 months from the date of issue.<br>If the eligibility ID provided is not working, inactive or has expired, please send an email to <a href="mailto:pld@dhcr.gov.ae">pld@dhcr.gov.ae</a> include details regarding the eligibility ID, the issue and application number(PLD-XX-XXXXXX).   |
| 2.6  | Payment needs to be completed online during the registration process on the Prometric website. <i>Please note:</i> Exam fees are non-refundable.<br>Medical & Dental specialties: \$220-\$280.<br>Nursing & Allied Health professionals: \$180 - \$220.  |
| 2.7  | The result is available immediately once the exam is completed.  |
| 2.8  | A candidate can have maximum 3 attempts per DHCA exam.   |
| 2.9  | The exam check-in procedure requires biometric (fingerprint) capture to positively identify candidates. Therefore, the DHCA exams are only available in test centers where biometric function is enabled.  |
| 2.10 | The candidate will be required to carry a valid and original Passport to the Prometric exam test center.   |



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2.11	Applicant should comply with the test center regulations, check in procedures, arrival time, etc. to avoid any inconvenience. For further details please visit the Prometric website link : <a href="https://www.prometric.com/en-us/for-test-takers/prepare-for-test-day/documents/TestCenterRegulations.pdf">https://www.prometric.com/en-us/for-test-takers/prepare-for-test-day/documents/TestCenterRegulations.pdf</a>
2.12	To locate a Prometric test center convenient to you, please visit the Prometric link: <a href="https://www.prometric.com/en-us/for-test-takers/prepare-for-test-day/frequently-asked-questions/pages/locate-a-test-center.aspx">https://www.prometric.com/en-us/for-test-takers/prepare-for-test-day/frequently-asked-questions/pages/locate-a-test-center.aspx</a>
2.13	For queries on rescheduling/cancellation/confirmation, please visit the Prometric link: <a href="https://www.prometric.com/en-us/for-test-takers/prepare-for-test-day/frequently-asked-questions/pages/register-reschedule-cancel-confirm.aspx">https://www.prometric.com/en-us/for-test-takers/prepare-for-test-day/frequently-asked-questions/pages/register-reschedule-cancel-confirm.aspx</a>
2.14	<p>Flowchart 1: DHCA License Application process</p> <pre> graph TD     A[Submit an online application] --&gt; B[Application under review]     B --&gt; C[Communication email for additional requirements and/or EXAM]     C --&gt; D[Register for Exam (if applicable) on Prometric.com]     D --&gt; E[Submit requested information]     E --&gt; F[Primary Source Verification process (if applicable)]     F --&gt; G[Decision and communication]     G --&gt; H[Submit further requirements (MMI, AMML, BLS)]     H --&gt; I[License issuance]     </pre>

### 3. APPLICABLE

3.1 Applicants who have completed the application review process and have received an Eligibility ID.



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### 4. MEDICAL EXAM

#### 4.1 Anesthesia

4.1.1	<b>Duration:</b> 2.5 hours
4.1.2	<b>Format:</b> Multiple Choice Questions
4.1.3	<b>No. of Questions:</b> 100
4.1.4	<b>Passing Score:</b> 65%
4.1.5	<b>Exam Centers:</b> Worldwide except USA and Canada
4.1.6	<b>Exam code:</b> ANAES

#### 4.1.7 Exam Content Areas

Category	Topic	Percentage
Basic	Pharmacology	6%
	Anatomy	6%
	Monitoring	3%
	Physiology	1%
	Physics and Equipment	3%
Clinical	General Anesthesia	9%
	Medical Disorder Related to Anesthesia	9%
	Critical Care Management	9%
	Airway Management	4%
	Cardiac and Vascular Anesthesia	4%
	Acute and Chronic Pain Management	4%
	Obstetric Anesthesia	6%
	Cardiopulmonary Resuscitation	3%
	Trauma Resuscitation	3%
	Thoracic Anesthesia	3%
	Regional Anesthesia	3%
	Pediatric Anesthesia	4%
	Fetal and Neonatal Anesthesia	3%
	Neuro-anesthesia	3%
	Orthopedic Anesthesia	3%
	Renal Anesthesia	1%
	ENT and Ophthalmic Anesthesia	3%
Ethics and Statistics	1%	
Hematology includes Blood and Blood Products	3%	
Miscellanies Topics including Anesthesia History, Obesity, Organ Transplants	3%	
<b>TOTAL</b>		<b>100%</b>



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4.1.8

### Exam Reference Books

1. Anesthesia: Ronald D. Miller MD (Author), Lars I. Eriksson (Author), Lee A. Fleisher MD (Author), Jeanine P. Wiener-Kronish MD (Author), William L. Young (Author). Churchill Livingstone; 7th Edition.
2. Clinical Anesthesia (Clinical Anesthesia (Barash): Paul G Barash, (Editor), Bruce F. Cullen(Editor), Robert K Stoelting (Editor), Michael Cahalan (Editor), M. Christine Stock (Editor) Lippincott Williams & Wilkins; 6th Edition.
3. Chestnut's Obstetric Anesthesia: Principles and Practice: David H. Chestnut MD (Author), Linda S Polley (Author), Lawrence C Tsen MD (Author), Cynthia A Wong MD (Author) Publisher: Mosby; 4th Edition.



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### 4.2 Cardiology

4.2.1 **Duration:** 3.5 hours

4.2.2 **Format:** : Multiple Choice Questions

4.2.3 **No. of Questions:** 150

4.2.4 **Passing Score:** 65%

4.2.5 **Exam Centers:** Worldwide except USA and Canada

4.2.6 **Exam code:** CRDIO

#### 4.2.7 **Exam Content Areas**

Coronary Artery Disease	17%
Cardiac Failure	17%
Valve Disease	17%
Arrhythmias	17%
Congenital Heart Disease	9%
The Heart in Systemic Disease	9%
Pericardial Disease	6%
Infective Endocarditis	4%
The Cardiomyopathies	4%
<b>TOTAL</b>	<b>100%</b>

#### 4.2.8 **Exam Reference Books**

1. Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine, 8th Edition.
2. Hurst's the Heart, 12th Edition.
3. Mayo Clinic Cardiology: Concise Textbook, 3rd Edition.
4. Adult Clinical Cardiology Self-Assessment Program - ACCSAP VII - American College of Cardiology.





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### 4.3 Clinical Pathology

4.3.1 **Duration:** 3.5 hours

4.3.2 **Format:** Multiple Choice Questions

4.3.3 **No. of Questions:** 150

4.3.4 **Passing Score:** 65%

4.3.5 **Exam Centers:** Worldwide except USA and Canada

4.3.6 **Exam code:** CPATH

#### 4.3.7 **Exam Content Areas**

Benign Hematology (Haemoglobinopathies, Anemia, Coagulopathies)	8%
Malignant Hematology (Leukemia, Lymphoma)	8%
Surgical Pathology, Autopsy and Forensic Pathology	5%
Bacteriology	10%
Mycology and Parasitology	5%
Virology, Immunology and Serology	5%
Cytogenetics and Molecular Studies	5%
Clinical Chemistry and Toxicology	30%
Blood Transfusion Medicine	9%
Laboratory management, Quality, Safety and Ethics	15%
<b>TOTAL</b>	<b>100%</b>

#### 4.3.8 **Exam Reference Books**

1. Post graduate haematology, A Victor Hoffbrand, Daniel Catovsky, Edward G D, Tuddenham and Anthony R. Green, Latest Edition.
2. AABB Technical Manual. Mark E. Brecher, Latest Edition.
3. Medical Microbiology, Churchill Livingstone, Latest Edition.
4. Dacie and Lewis: Practical Haematology. Lewis SM, Bain BJ, Bates I, Latest Edition.
5. Robbins and Cotran Pathologic Basis of Disease, Latest Edition.
6. Henry's Clinical Diagnosis and Management by laboratory methods latest edition, Mcpherson, Pinay latest
7. Tietz Textbook of Clinical Chemistry and Molecular Diagnostic, latest edition, Carl A. Burtis



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### 4.4 Dermatology

4.4.1 **Duration:** 3.5 hours

4.4.2 **Format:** : Multiple Choice Questions

4.4.3 **No. of Questions:** 150

4.4.4 **Passing Score:** 65%

4.4.5 **Exam Centers:** Worldwide except USA and Canada

4.4.6 **Exam code:** DERM

#### 4.4.7 **Exam Content Areas**

Papulosquamous and Eczematous Dermatitis	13%
Urticaria, erythemas, purpura and connective tissue diseases	8%
Vesiculobullous disorders	5%
Adnexal, hair, nails and mucous membranes diseases	5%
Metabolic, systemic diseases and disorders of dermal connective tissues and subcutaneous fat	8%
Infections	8%
Cutaneous neoplasms	14%
Pediatric Dermatology	10%
Procedural Dermatology	9%
Skin Manifestations of Other Diseases	5%
Pigmentary disorders and Photodermatitis	5%
Patient Safety	5%
Professionalism and Ethics	5%
<b>TOTAL</b>	<b>100%</b>

#### 4.4.8 **Exam Reference Books**

1. Goldsmith, Lowell A, et al. Fitzpatrick's Dermatology in General Medicine. Latest Edition, vol. 2, McGraw Hill Professional.
2. Bologna, Jean L, et al. Dermatology. Latest Edition, Gulf Professional Publishing.
3. Wolverson, Stephen E. Comprehensive Dermatologic Drug Therapy. Latest Edition, Elsevier Health Sciences.
4. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.
5. Essentials of Patient Safety, SCHS, Latest Edition



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### 4.5 Diagnostic Radiology

4.5.1 **Duration:** 3 hours

4.5.2 **Format:** : Multiple Choice Questions

4.5.3 **No. of Questions:** 100

4.5.4 **Passing Score:** 60%

4.5.5 **Exam Centers:** Worldwide except USA and Canada

4.5.6 **Exam code:** RADDR

#### 4.5.7 **Exam Content Areas**

Gastrointestinal	11%
Genitourinary	10%
Neuro	11%
Head and Neck	5%
Musculoskeletal	11%
Chest	11%
Cardiovascular	5%
Pediatrics	13%
Interventional	5%
Breast	5%
Nuclear Medicine	4%
Ultrasonography	5%
Contrast and Safety	4%
<b>TOTAL</b>	<b>100%</b>

#### 4.5.8 **Exam Reference Books**

1. Computed Body Tomography with MRI Correlation, J Lee et al, Lippincott, Williams and Wilkins, Latest Edition.
2. Diagnostic and Surgical Imaging Anatomy: Brain, Head and Neck, Spine, Harnsberger et al, Lippincott, Williams and Wilkins, Latest Edition.
3. Diagnostic Imaging: Brain, Osborn et al, Amirsys, Latest Edition.
4. Fundamentals of Diagnostic Radiology, Brant and Helms, Lippincott, Williams and Wilkins, Latest Edition.
5. Primer of Diagnostic Imaging, Weissleder et al, Mosby, Latest Edition.
6. Review of Radiologic Physics, Walter Huda, Lippincott, Williams and Wilkins, Latest Edition.



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### 4.6 Emergency Medicine

4.6.1 **Duration:** 3.75 hours

4.6.2 **Format:** : Multiple Choice Questions

4.6.3 **No. of Questions:** 150

4.6.4 **Passing Score:** 60%

4.6.5 **Exam Centers:** Worldwide except USA and Canada

4.6.6 **Exam code:** EMED

#### 4.6.7 **Exam Content Areas**

Toxicology	6%
Resuscitation	8%
Psychiatry	3%
Obstetrics and Gynecology	3%
Neurology	5%
Environmental	3%
Gastroenterology	6%
Head, Neck, Oral and ENT	5%
Ophthalmology	3%
Cardiovascular	8%
Endocrine and Electrolytes	5%
Hematology Oncology	3%
Pediatrics	8%
Respiratory	6%
Trauma and Orthopedic	8%
Infectious Disease	3%
Genito-urinary	3%
Others	4%
Professionalism and Ethics	5%
Patient Safety	5%
<b>TOTAL</b>	<b>100%</b>

#### 4.6.8 **Exam Reference Books**

1. Emergency Medicine: A Comprehensive Study Guide, 7th edition: by Judith E Tintinall, McGraw-Hill Professional.
2. EMERGENCY MEDICINE concepts and clinical practice, 6<sup>th</sup> Edition: by Peter Rosen.
3. EMERGENCY MEDICINE: An Approach to Clinical Problem-Solving Second Edition, Glenn C. Hamilton.
4. Atlas of Emergency Medicine, Second Edition, by Kevin J. Knoop.



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5. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.
6. Essentials of Patient Safety, SCHS, Latest Edition.



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 4.7 Endocrinology

4.7.1 **Duration:** 3 hours

4.7.2 **Format:** Multiple Choice Questions

4.7.3 **No. of Questions:** 100

4.7.4 **Passing Score:** 60%

4.7.5 **Exam Centers:** Worldwide except USA and Canada

4.7.6 **Exam code:** ENDCR

#### 4.7.7 **Exam Content Areas**

Diabetes Mellitus	20%
Obesity	7%
Dyslipidemia	7%
Thyroid	15%
Hypothalamus and Pituitary	10%
Adrenal Disorders	8%
Parathyroid / Metabolic Bone Diseases	10%
Reproductive Endocrinology	8%
Pediatric Endocrinology	5%
Patient Safety	5%
Professionalism and Ethics	5%
<b>TOTAL</b>	<b>100%</b>

#### 4.7.8 **Exam Reference Books**

1. UpToDate.
2. Wass, J. A. H., & Stewart, P. M. (2011). Oxford textbook of endocrinology and diabetes. Oxford: Oxford University Press.
3. In Melmed, S., In Polonsky, K. S., In Larsen, P. R., & In Kronenberg, H. (2016). Williams textbook of endocrinology.
4. Gardner, D. (2017). Greenspan's Basic and Clinical Endocrinology, Tenth Edition. McGraw-Hill Education.
5. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.
6. Essentials of Patient Safety, SCHS, Latest Edition.



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4.8 Family Medicine											
4.8.1	<b>Duration:</b> 3 hours										
4.8.2	<b>Format:</b> : Multiple Choice Questions										
4.8.3	<b>No. of Questions:</b> 100										
4.8.4	<b>Passing Score:</b> 60%										
4.8.5	<b>Exam Centers:</b> Worldwide except USA and Canada										
4.8.6	<b>Exam code:</b> FAMME										
4.8.7	<p><b>Exam Content Areas</b></p> <table border="1"> <tbody> <tr> <td>Surgery</td> <td>15-25%</td> </tr> <tr> <td>Pediatrics</td> <td>20-30%</td> </tr> <tr> <td>Obstetrics and Gynecology</td> <td>20-30%</td> </tr> <tr> <td>Medicine</td> <td>25-35%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	Surgery	15-25%	Pediatrics	20-30%	Obstetrics and Gynecology	20-30%	Medicine	25-35%	<b>TOTAL</b>	<b>100%</b>
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Obstetrics and Gynecology	20-30%										
Medicine	25-35%										
<b>TOTAL</b>	<b>100%</b>										
4.8.8	<p><b>Exam Reference Books</b></p> <ol style="list-style-type: none"> <li>1. Neville F. Hacker, MD, Joseph C. Gambone, DO, MPH, Executive Editor and Calvin J. Hobel, MD, . Hacker and Moore's Essentials of Obstetrics and Gynecology.</li> <li>2. Dennis L. Kasper M.D., Anthony S. Fauci, Stephen L. Hauser M.D, Dan L. Longo M.D, J. Larry Jameson M.D, and Joseph Loscalzo. Harrison's Principles of Internal Medicine, 19th Edition.</li> <li>3. Parveen Kumar , Michael Clark. Kumar and Clark's Clinical Medicine, 9th Edition.</li> <li>4. Alan H. DeCherney, Lauren Nathan, T. Murphy Goodwin, Neri Laufer and Ashley S. Roman, Current Diagnosis and Treatment Obstetrics and Gynecology, 11th Edition.</li> <li>5. Jeremy J N Oats, MBBS, DM, FRCOG, FRANZCOG and Suzanne Abraham, MSc, PhD(Med), MAPS, . Llewellyn-Jones Fundamentals of Obstetrics and Gynaecology Edition.</li> <li>6. Karen Marcdante MD , Robert M. Kliegman MD . Nelson Essentials of Pediatrics, 7th Edition. • John L. Cameron , Andrew M. Cameron. Current Surgical Therapy,12th edition, 2017.</li> <li>7. The University of Cincinnati Residents and Amy Makley .The Mont Reid Surgical Handbook: Mobile Medicine Series, 7th edition, 2017 Walton, M. (2011). Patient Safety Curriculum Guide. Geneva: World Health Organization.</li> <li>8. Katz D, Jekel J, Elmore J, Wild D, Lucan S. Jekel's Epidemiology, Biostatistics, Preventive Medicine, and Public Health. 4th ed. 2013.</li> <li>9. U.S. Preventive Services Task Force: Guide to Clinical Preventive Services.</li> <li>10. Al kaabba F. Abdulaziz, Hussein MA Ghaiath, Kasule H. Omar SCFHS-2015, . Professionalism and Ethics Handbook for Residents Practical guide</li> </ol>										



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### 4.9 Gastroenterology

4.9.1 **Duration:** 2.5 hours

4.9.2 **Format:** : Multiple Choice Questions

4.9.3 **No. of Questions:** 100

4.9.4 **Passing Score:** 65%

4.9.5 **Exam Centers:** Worldwide

4.9.6 **Exam code:** GSTRO

#### 4.9.7 **Exam Content Areas**

Esophagus	8%
Stomach/Duodenum	14%
Small Intestine	8%
Colonic Diseases	14%
Biliary Tract	8%
Liver Diseases	23%
Pancreas	8%
Miscellaneous	7%
Patient Safety	5%
Professionalism and Ethics	5%
<b>TOTAL</b>	<b>100%</b>

#### 4.9.8 **Exam Reference Books**

1. Sleisenger and Fordtran's Gastrointestinal and Liver Disease- 2 Volume Set: by Mark Feldman, Lawrence S. Friedman MD, and Lawrence J. Brandt MD, Latest Edition (Hardcover - May 3, 2010).
2. Mayo Clinic Gastroenterology and Hepatology Board Review, Up to date Edition by Stephen C. Hauser, Darrell S. Pardi, and John J. Poteruch.
3. Practical Gastrointestinal Endoscopy: The Fundamentals by Peter B. Cotton, Christopher B. Williams, Robert H. Hawes, and Brian P. Saunders (Hardcover - Jun 30, 2008).
4. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.
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4.10 General Medicine																											
4.10.1	<b>Duration:</b> 3 hours																										
4.10.2	<b>Format:</b> : Multiple Choice Questions																										
4.10.3	<b>No. of Questions:</b> 100																										
4.10.4	<b>Passing Score:</b> 65%																										
4.10.5	<b>Exam Centers:</b> Worldwide																										
4.10.6	<b>Exam code:</b> GENPR																										
4.10.7	<p><b>Exam Content Areas</b></p> <table border="1"> <tbody> <tr> <td>Chronic Diseases</td> <td>14%</td> </tr> <tr> <td>Acute and/or Common Medical Problems</td> <td>14%</td> </tr> <tr> <td>Common Pediatric Problems</td> <td>12%</td> </tr> <tr> <td>Women Health</td> <td>12%</td> </tr> <tr> <td>Emergency Problems</td> <td>8%</td> </tr> <tr> <td>Common Surgical Problems</td> <td>7%</td> </tr> <tr> <td>Common Psychiatric Problems</td> <td>8%</td> </tr> <tr> <td>Common Eye and ENT Problems</td> <td>8%</td> </tr> <tr> <td>Common Derma Problems</td> <td>4%</td> </tr> <tr> <td>Basic Epidemiology and EBM Concepts</td> <td>3%</td> </tr> <tr> <td>Family Medicine Concepts</td> <td>5%</td> </tr> <tr> <td>Screening and Periodic Health Examination</td> <td>5%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	Chronic Diseases	14%	Acute and/or Common Medical Problems	14%	Common Pediatric Problems	12%	Women Health	12%	Emergency Problems	8%	Common Surgical Problems	7%	Common Psychiatric Problems	8%	Common Eye and ENT Problems	8%	Common Derma Problems	4%	Basic Epidemiology and EBM Concepts	3%	Family Medicine Concepts	5%	Screening and Periodic Health Examination	5%	<b>TOTAL</b>	<b>100%</b>
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Family Medicine Concepts	5%																										
Screening and Periodic Health Examination	5%																										
<b>TOTAL</b>	<b>100%</b>																										
4.10.8	<p><b>Exam Reference Books</b></p> <ol style="list-style-type: none"> <li>1. Nelson Textbook of Pediatrics, Latest Edition, Saunders (Elsevier).</li> <li>2. Primary Care Medicine, Latest Edition, Goroll and Mulley.</li> <li>3. The Johns Hopkins Manual of Gynecology and Obstetrics, Latest Edition Johns Hopkins Institute.</li> <li>4. Harrison's Principles of Internal medicine, Latest Edition, McGraw-Hill.</li> <li>5. Oxford Handbook of Clinical Specialties, Latest Edition, Collier and Longmore.</li> <li>6. Psychiatry for Primary Care Physicians, Latest Edition, Goldman, Wise, and Brody.</li> <li>7. Primary Care Medicine: Office Evaluation and Management of the Adult Patient, Latest Edition.</li> </ol>																										



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

<b>4.11</b>	<b>General Surgery</b>	
4.11.1	<b>Duration:</b> 3 hours	
4.11.2	<b>Format:</b> Multiple Choice Questions	
4.11.3	<b>No. of Questions:</b> 100	
4.11.4	<b>Passing Score:</b> 70%	
4.11.5	<b>Exam Centers:</b> Worldwide	
4.11.6	<b>Exam code:</b> GENSU	
4.11.7	<b>Exam Content Areas</b>	
	Fluid and Electrolytes	5%
	Shock	4%
	Sepsis and Surgical Infections	7%
	Perioperative Care	2%
	Trauma and Critical Care	7%
	Endocrine and Breast	7%
	Upper GI	14%
	Colorectal and Perianal	14%
	Hepato-biliary	10%
	Patient safety	5%
	Pancreas and Spleen	7%
	Hernia (all)	7%
	Vascular	2%
	Pediatrics	2%
	Skin and Soft Tissue	2%
	Professionalism and Ethics	5%
	<b>TOTAL</b>	<b>100%</b>
4.11.8	<b>Exam Reference Books</b>	
	1. Sabiston Textbook of Surgery, latest Edition	
	2. Schwartz Textbook of Surgery, latest Edition.	
	3. Current Surgical Therapy by John L. Cameron, latest Edition.	
	4. Bailey and Love's Short Practice of Surgery, latest Edition	
	5. Rush Surgical Review, latest Edition.	
	6. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.	
	7. Essentials of Patient Safety, SCHS, Latest Edition.	



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

4.12 Intensive Care																											
4.12.1	<b>Duration:</b> 2.5 hours																										
4.12.2	<b>Format:</b> : Multiple Choice Questions																										
4.12.3	<b>No. of Questions:</b> 100																										
4.12.4	<b>Passing Score:</b> 70%																										
4.12.5	<b>Exam Centers:</b> Worldwide except USA and Canada																										
4.12.6	<b>Exam code:</b> ICU																										
4.12.7	<p><b>Exam Content Areas</b></p> <table border="1"> <tbody> <tr> <td>Ventilator &amp; ARDS</td> <td>18%</td> </tr> <tr> <td>Hemodynamic &amp; Shock</td> <td>18%</td> </tr> <tr> <td>Pharmacology &amp; Medical Therapeutics</td> <td>4%</td> </tr> <tr> <td>Cardiovascular Diseases</td> <td>9%</td> </tr> <tr> <td>Pulmonary Diseases</td> <td>4%</td> </tr> <tr> <td>Infectious Diseases</td> <td>9%</td> </tr> <tr> <td>Nephrology, Electrolyte &amp; ABG</td> <td>5%</td> </tr> <tr> <td>Trauma</td> <td>9%</td> </tr> <tr> <td>Neuro Critical Care</td> <td>5%</td> </tr> <tr> <td>Surgical Critical Care &amp; Gynecology and Others</td> <td>9%</td> </tr> <tr> <td>Patient Safety</td> <td>5%</td> </tr> <tr> <td>Professionalism and Ethics</td> <td>5%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	Ventilator & ARDS	18%	Hemodynamic & Shock	18%	Pharmacology & Medical Therapeutics	4%	Cardiovascular Diseases	9%	Pulmonary Diseases	4%	Infectious Diseases	9%	Nephrology, Electrolyte & ABG	5%	Trauma	9%	Neuro Critical Care	5%	Surgical Critical Care & Gynecology and Others	9%	Patient Safety	5%	Professionalism and Ethics	5%	<b>TOTAL</b>	<b>100%</b>
Ventilator & ARDS	18%																										
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Trauma	9%																										
Neuro Critical Care	5%																										
Surgical Critical Care & Gynecology and Others	9%																										
Patient Safety	5%																										
Professionalism and Ethics	5%																										
<b>TOTAL</b>	<b>100%</b>																										
4.12.8	<p><b>Exam Reference Books</b></p> <ol style="list-style-type: none"> <li>Hall, JB, Schmidt, GA, Wood, LD. Principles of Critical Care. USA : The McGraw-Hill Companies, Latest Edition.</li> <li>Tierney McPhee Papadakis. Current Medical Diagnosis and Treatment, USA: The McGraw-Hill Companies, Latest Edition.</li> <li>Fauci, AS, Kasper, DF, Longo, DL, Braunwald, E, Hauser, SL, Jameson, JL, Loscalzo, J. Harrison's Principles of Internal Medicine. USA: The McGraw-Hill Companies, Latest Edition.</li> <li>Marino, PL. The ICU Book, Pennsylvania: Lippincott Williams and Wilkins, Latest Edition.</li> <li>Curtis, GT, Nelson, LT. ICU Recall, USA: Lippincott Williams and Wilkins, Latest Edition.</li> <li>Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.</li> <li>Essentials of Patient Safety, SCHS, Latest Edition.</li> </ol>																										



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

<b>4.13</b>	<b>Internal Medicine</b>	
4.13.1	<b>Duration:</b> 3 hours	
4.13.2	<b>Format:</b> Multiple Choice Questions	
4.13.3	<b>No. of Questions:</b> 100	
4.13.4	<b>Passing Score:</b> 65%	
4.13.5	<b>Exam Centers:</b> Worldwide	
4.13.6	<b>Exam code:</b> INTME	
4.13.7	<b>Exam Content Areas</b>	
	Cardiovascular	10%
	Pulmonary Diseases	10%
	Gastrointestinal Diseases	10%
	Infectious Diseases	10%
	Hematology	5%
	Oncology	5%
	Nephrology	8%
	Rheumatology	8%
	Endocrinology	10%
	Neuroscience	7%
	Emergency Medicine	7%
	Patient Safety	5%
	Professionalism and Ethics	5%
	<b>TOTAL</b>	<b>100%</b>
4.13.8	<b>Exam Reference Books</b>	
	1. Harrison's Principles of Internal Medicine, 17th Edition, 2008, Fauci et al, McGraw-Hill.	
	2. Differential Diagnosis in Internal Medicine: From Symptom to Diagnosis, 2007, Siegenthaler, Thieme Medical Publishers	
	3. Cecil Review of General Internal Medicine, 8th Edition, 2004, Cooper and Pappas, Saunders/Elsevier.	
	4. Davidson's Principles and Practices of Medicine, 20th Edition, 2008, Churchill Livingstone	
	5. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.	
	6. Essentials of Patient Safety, SCHS, Latest Edition.	



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

<b>4.14 Medical Microbiology</b>															
4.14.1	<b>Duration:</b> 2.5 hours														
4.14.2	<b>Format:</b> : Multiple Choice Questions														
4.14.3	<b>No. of Questions:</b> 70														
4.14.4	<b>Passing Score:</b> 65%														
4.14.5	<b>Exam Centers:</b> Worldwide except USA and Canada														
4.14.6	<b>Exam code:</b> MICDR														
4.14.7	<b>Exam Content Areas</b>														
	<table border="1"> <tr> <td>Bacteriology</td> <td>46%</td> </tr> <tr> <td>Virology</td> <td>20%</td> </tr> <tr> <td>Mycology</td> <td>9%</td> </tr> <tr> <td>Parasitology</td> <td>14%</td> </tr> <tr> <td>Infectious Disease</td> <td>3%</td> </tr> <tr> <td>Immunology / Serology</td> <td>8%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </table>	Bacteriology	46%	Virology	20%	Mycology	9%	Parasitology	14%	Infectious Disease	3%	Immunology / Serology	8%	<b>TOTAL</b>	<b>100%</b>
Bacteriology	46%														
Virology	20%														
Mycology	9%														
Parasitology	14%														
Infectious Disease	3%														
Immunology / Serology	8%														
<b>TOTAL</b>	<b>100%</b>														
4.14.8	<b>Exam Reference Books</b>														
	1. Medical Microbiology, with STUDENT CONSULT. Murray, P. R., Rosenthal, K. S., and Pfaller, M. A. , Latest Edition.														



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

<b>4.15</b>	<b>Obstetrics &amp; Gynecology</b>	
4.15.1	<b>Duration:</b>	3 hours
4.15.2	<b>Format:</b>	: Multiple Choice Questions
4.15.3	<b>No. of Questions:</b>	100
4.15.4	<b>Passing Score:</b>	65%
4.15.5	<b>Exam Centers:</b>	Worldwide
4.15.6	<b>Exam code:</b>	OBGYN
4.15.7	<b>Exam Content Areas</b>	
	General Obstetrics	21%
	General Gynecology	17%
	Maternal Fetal Medicine	11%
	Gynecology Oncology	13%
	Women Health	9%
	Uro-gynecology and Pelvic Disorders	4%
	Reproductive Endocrinology & Infertility	8%
	Preoperative Management	7%
	Patient Safety	5%
	Professionalism and Ethics	5%
	<b>TOTAL</b>	<b>100%</b>
4.15.8	<b>Exam Reference Books</b>	
	1. Williams Obstetrics, 23rd Edition, 2009, Cunningham et al, Appleton & Lange.	
	2. Clinical Gynecological Endocrinology & Infertility, 7th Edition, 2004, Leon Speroff, Lippincott.	
	3. Perek and Novak Gynecology, 14th edition, 2006, Jonathan Perek, Lippincott.	
	4. Comprehensive Gynecology, 5th Edition, 2007, Vern Katz et al, Mosby.	
	5. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.	
	6. Essentials of Patient Safety, SCHS, Latest Edition.	



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

<b>4.16</b>	<b>Ophthalmology</b>	
4.16.1	<b>Duration:</b> 2.5 hours	
4.16.2	<b>Format:</b> : Multiple Choice Questions	
4.16.3	<b>No. of Questions:</b> 100	
4.16.4	<b>Passing Score:</b> 65%	
4.16.5	<b>Exam Centers:</b> Worldwide except USA and Canada	
4.16.6	<b>Exam code:</b> OPHTH	
4.16.7	<b>Exam Content Areas</b>	
	General Medicine	8%
	Fundamentals and Principles	5%
	Optics, Refraction and Contact Lenses	5%
	Ophthalmic Pathology and Ocular Tumours	5%
	Neuro-ophthalmology	5%
	Pediatric Ophthalmology and Strabismus	13%
	Orbit, Eyelids and Lacrimal System	9%
	Cornea, Lens and External Diseases	11%
	Intraocular Inflammation and Uveitis	9%
	Glaucoma	8%
	Retina and Vitreous	12%
	Professionalism and Ethics	5%
	Patient Safety	5%
	<b>TOTAL</b>	<b>100%</b>
4.16.8	<b>Exam Reference Books</b>	
	1. Basic and Clinical Science Course (BCSC) Residency Print Set, by American Academy of Ophthalmology, Latest Edition.	
	2. Ocular Infections (Essentials in Ophthalmology) by Khalid Tabbara, Ahmed Mokhtar, Mohamed Abu El-Asrar, Moncef Khairallah, Latest Edition.	
	3. Kanski's Clinical Ophthalmology: A Systematic Approach by Brad Bowling, Latest Edition.	
	4. Ophthalmology: Expert Consult: Yanoff MD, Myron; Duker MD, Jay S. , Latest Edition.	
	5. Adler's Physiology of the Eye: Expert Consult by Leonard A Levin, Siv F. E. Nilsson, James Ver, Samuel Wu MD, Paul L. Kaufman, Albert Alm ,Latest Edition.	
	6. Duane's Clinical Ophthalmology by William Tasman, Edward A. Jaeger, Latest Edition.	
	7. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.	
	8. Essentials of Patient Safety, SCHS, Latest Edition.	



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

<b>4.17</b>	<b>Orthopedic Surgery</b>	
4.17.1	<b>Duration:</b>	3 hours
4.17.2	<b>Format:</b>	: Multiple Choice Questions
4.17.3	<b>No. of Questions:</b>	100
4.17.4	<b>Passing Score:</b>	75%
4.17.5	<b>Exam Centers:</b>	Worldwide
4.17.6	<b>Exam code:</b>	ORTHO
4.17.7	<b>Exam Content Areas</b>	
	Infections	10%
	Trauma	20%
	Pediatric Orthopedics	15%
	Orthopedic Sport Medicine	10%
	Metabolic Skeletal Disorders	5%
	Spine	5%
	Reconstruction	10%
	Upper Limb	5%
	Foot and Ankle	5%
	Oncology	5%
	Patient Safety	5%
	Professionalism and Ethics	5%
	<b>TOTAL</b>	<b>100%</b>
4.17.8	<b>Exam Reference Books</b>	
	1. Surgical exposures in Orthopedics, Stanley Hoppenfeld, Piet DeBoer, Richard Buckley, latest edition, Wolters, Kluwer, Lippincott Williams and Wilkins.	
	2. Apley's system of Orthopedics and Fractures, Louis Solomon, David J Warwick, Selvadurai Nayagam, latest edition, Arnold.	
	3. Review of Orthopedics, Mark Miller, Mark Brinker, latest edition, W.B. Saunders Company.	
	4. Rockwood and greens fractures in adult and in children, Robert W Bucholz, James D Heckman, Charles M Court-Brown and Paul Tornetta latest edition, Lippincott Company.	
	5. Campbell's operative Orthopedics, S Terry Canale and James H, Beaty, latest edition, Mosby.	
	6. Orthopedic Knowledge Update (OKU).	





## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

<b>4.18</b>	<b>Otolaryngology</b>	
4.18.1	<b>Duration:</b>	3 hours
4.18.2	<b>Format:</b>	: Multiple Choice Questions
4.18.3	<b>No. of Questions:</b>	100
4.18.4	<b>Passing Score:</b>	65%
4.18.5	<b>Exam Centers:</b>	Worldwide except USA and Canada
4.18.6	<b>Exam code:</b>	ENT
4.18.7	<b>Exam Content Areas</b>	
	General	8%
	Otology and Otoneurology	18%
	Pediatric	10%
	Audiology and Speech	5%
	Rhinology and Skull Base	18%
	Head and Neck	15%
	Facio-Plastic/Reconstruction	8%
	Laryngology	8%
	Patient Safety	5%
	Professionalism and Ethics	5%
	<b>TOTAL</b>	<b>100%</b>
4.18.8	<b>Exam Reference Books</b>	
	1. Otolaryngology Head and Neck Surgery, Charles W.Cummings, Latest Edition.	
	2. Scott-Brown's Otolaryngology, Latest Edition.	
	3. Essential Otolaryngology Head and Neck Surgery K.J.Lee, Latest Edition.	
	4. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.	
	5. Essentials of Patient Safety, SCHS, Latest Edition.	
	6. Bailey's Head and Neck Surgery: Otolaryngology (2 volume set).	



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

4.19 Pediatrics																													
4.19.1	<b>Duration:</b> 3 hours																												
4.19.2	<b>Format:</b> Multiple Choice Questions																												
4.19.3	<b>No. of Questions:</b> 100																												
4.19.4	<b>Passing Score:</b> 70%																												
4.19.5	<b>Exam Centers:</b> Worldwide																												
4.19.6	<b>Exam code:</b> PEDS																												
4.19.7	<p><b>Exam Content Areas</b></p> <table border="1"> <tbody> <tr> <td>Growth and Development Adolescent and behavior</td> <td>15%</td> </tr> <tr> <td>Gastroenterology</td> <td>5%</td> </tr> <tr> <td>Acute care (ER,PICU,NICU)</td> <td>15%</td> </tr> <tr> <td>Metabolic and Endocrine</td> <td>5%</td> </tr> <tr> <td>Allergy / Immunology/Infectious Diseases</td> <td>10%</td> </tr> <tr> <td>Respiratory</td> <td>10%</td> </tr> <tr> <td>Cardiovascular</td> <td>5%</td> </tr> <tr> <td>Hematology/Oncology</td> <td>5%</td> </tr> <tr> <td>Neurology</td> <td>10%</td> </tr> <tr> <td>Renal /Musculoskeletal</td> <td>5%</td> </tr> <tr> <td>Pediatrics Surgery</td> <td>5%</td> </tr> <tr> <td>Professionalism and Ethics</td> <td>5%</td> </tr> <tr> <td>Patient Safety</td> <td>5%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	Growth and Development Adolescent and behavior	15%	Gastroenterology	5%	Acute care (ER,PICU,NICU)	15%	Metabolic and Endocrine	5%	Allergy / Immunology/Infectious Diseases	10%	Respiratory	10%	Cardiovascular	5%	Hematology/Oncology	5%	Neurology	10%	Renal /Musculoskeletal	5%	Pediatrics Surgery	5%	Professionalism and Ethics	5%	Patient Safety	5%	<b>TOTAL</b>	<b>100%</b>
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Professionalism and Ethics	5%																												
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<b>TOTAL</b>	<b>100%</b>																												
4.19.8	<p><b>Exam Reference Books</b></p> <ol style="list-style-type: none"> <li>1. Nelson's Textbook of Pediatrics, Kliegman et al., Saunders/Elsevier (Latest Edition)</li> <li>2. Rudolph's Fundamentals of Pediatrics, Rudolph et al., McGraw-Hill (Latest Edition)</li> <li>3. Principles and Practice of Pediatrics. , Oski et al Lippincot (Latest Edition)</li> <li>4. WHO Health Programs, World Health Organization Website</li> <li>5. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.</li> <li>6. Essentials of Patient Safety, SCHS, Latest Edition.</li> </ol>																												



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

<b>4.20</b>	<b>Plastic Surgery</b>	
4.20.1	<b>Duration:</b> 3.75 hours	
4.20.2	<b>Format:</b> : Multiple Choice Questions	
4.20.3	<b>No. of Questions:</b> 150	
4.20.4	<b>Passing Score:</b> 70%	
4.20.5	<b>Exam Centers:</b> Worldwide except USA and Canada	
4.20.6	<b>Exam code:</b> PLASU	
4.20.7	<b>Exam Content Areas</b>	
	General Plastic Surgery and Reconstructions	34%
	Hand and Extremity	26%
	Craniomaxillofacial and Pediatric Plastic	14%
	Aesthetic and Breast	26%
	<b>TOTAL</b>	<b>100%</b>
4.20.8	<b>Exam Reference Books</b>	
	1. Plastic Surgery - by Stephen j. Mathes.	
	2. Green's Operative Hand Surgery – David Green.	
	3. Plastic and Reconstructive Breast Surgery – John Bostwick.	
	4. Grabb's Encyclopedia of Flaps – BerishStrauch.	
	5. Pediatric Plastic Surgery – Micheal L. Bentz.	
	6. Lister's The Hand Diagnosis and Indications – Paul Smith Principles and Practice of Pediatric Plastic Surgery – Miccheal L. Bentz, Ronald M. Zoker.	
	7. Microsurgical Reconstruction of the Head and Neck – Peter Neligan, Fu-chan Wei.	



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

<b>4.21</b>	<b>Psychiatry</b>	
4.21.1	<b>Duration:</b> 3.25 hours	
4.21.2	<b>Format:</b> : Multiple Choice Questions	
4.21.3	<b>No. of Questions:</b> 100	
4.21.4	<b>Passing Score:</b> 70%	
4.21.5	<b>Exam Centers:</b> Worldwide	
4.21.6	<b>Exam code:</b> CPSYC	
4.21.7	<b>Exam Content Areas</b>	
	Child Psychiatry	10%
	Adult Psychiatry/Psychosis	10%
	Adult Psychiatry/Depression	5%
	Adult Psychiatry/Bipolar	5%
	Adult Psychiatry/Anxiety	10%
	Adult Psychiatry/Others	5%
	Geriatric Psychiatry	5%
	Emergency Psychiatry	10%
	Consultation Liaison Psychiatry	15%
	Ethics in Psychiatry	5%
	Substance Related Disorders	15%
	Forensic Psychiatry	5%
	<b>TOTAL</b>	<b>100%</b>
4.21.8	<b>Exam Reference Books</b>	
	1. Kaplan and Sadock's Comprehensive Textbook of Psychiatry, Latest Edition.	
	2. New Oxford Textbook of Psychiatry Edited by Michael Gelder, Nancy Andreasen, Juan Lopez-Ibor, and John Geddes, Latest Edition.	



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

4.22 Pulmonology Medicine																											
4.22.1	<b>Duration:</b> 3.25 hours																										
4.22.2	<b>Format:</b> : Multiple Choice Questions																										
4.22.3	<b>No. of Questions:</b> 100																										
4.22.4	<b>Passing Score:</b> 60%																										
4.22.5	<b>Exam Centers:</b> Worldwide except USA and Canada																										
4.22.6	<b>Exam code:</b> PULM																										
4.22.7	<p><b>Exam Content Areas</b></p> <table border="1"> <tbody> <tr> <td>Obstructive Lung Disease</td> <td>20%</td> </tr> <tr> <td>Interstitial and Inflammatory Lung Disease</td> <td>12%</td> </tr> <tr> <td>Occupational and environmental diseases</td> <td>5%</td> </tr> <tr> <td>Infections</td> <td>10%</td> </tr> <tr> <td>Neoplasms</td> <td>8%</td> </tr> <tr> <td>Pleural Diseases</td> <td>5%</td> </tr> <tr> <td>Sleep Medicine</td> <td>10%</td> </tr> <tr> <td>Congenital, Neuromuscular, and Skeletal Abnormalities</td> <td>5%</td> </tr> <tr> <td>Vascular Disorders</td> <td>10%</td> </tr> <tr> <td>Critical Care Medicine</td> <td>5%</td> </tr> <tr> <td>Professionalism and Ethics</td> <td>5%</td> </tr> <tr> <td>Patient Safety</td> <td>5%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	Obstructive Lung Disease	20%	Interstitial and Inflammatory Lung Disease	12%	Occupational and environmental diseases	5%	Infections	10%	Neoplasms	8%	Pleural Diseases	5%	Sleep Medicine	10%	Congenital, Neuromuscular, and Skeletal Abnormalities	5%	Vascular Disorders	10%	Critical Care Medicine	5%	Professionalism and Ethics	5%	Patient Safety	5%	<b>TOTAL</b>	<b>100%</b>
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Patient Safety	5%																										
<b>TOTAL</b>	<b>100%</b>																										
4.22.8	<p><b>Exam Reference Books</b></p> <ol style="list-style-type: none"> <li>1. Murray &amp; Nadel's Textbook of Respiratory Medicine.</li> <li>2. Fishman's Pulmonary Diseases and Disorders.</li> <li>3. West, John. Pulmonary Pathophysiology: The Essentials.</li> <li>4. West, John. Respiratory Physiology: The Essentials.</li> <li>5. Goodman. Felson's Principles of Chest Roentgenology.</li> <li>6. W. Richard Webb. High-Resolution CT of the Lung.</li> <li>7. Robert E. Hyatt. Interpretation of Pulmonary Function Tests.</li> <li>8. ACCP Pulmonary Medicine Board Review.</li> <li>9. Essentials of Patient Safety, SCHS, Latest Edition.</li> <li>10. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.</li> </ol>																										



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

<b>4.23</b>	<b>Rheumatology</b>	
4.23.1	<b>Duration:</b> 3.25 hours	
4.23.2	<b>Format:</b> : Multiple Choice Questions	
4.23.3	<b>No. of Questions:</b> 100	
4.23.4	<b>Passing Score:</b> 60%	
4.23.5	<b>Exam Centers:</b> Worldwide except USA and Canada	
4.23.6	<b>Exam code:</b> RHUMA	
4.23.7	<b>Exam Content Areas</b>	
	Regional Pain Syndromes, Cartilage, and Bone Diseases	6%
	Rheumatoid Arthritis	16%
	Seronegative Spondyloarthropathies	10%
	Crystal Induced Arthropathies	6%
	Infectious and Related Arthritis	8%
	Systemic Lupus Erythematosus and Antiphospholipid Syndrome	18%
	Other Rheumatic and Connective Tissue Diseases	16%
	Vasculitides	10%
	Professionalism and Ethics	5%
	Patient Safety	5%
	<b>TOTAL</b>	<b>100%</b>
4.23.8	<b>Exam Reference Books</b>	
	1. Klippel, John H. Primer on the Rheumatic Diseases. New York, NY: Springer, Latest Edition.	
	2. Weisman, Michael H., Michael E. Weinblatt, and James S. Louie. Treatment of the Rheumatic Diseases: Companion to Kelley's Textbook of Rheumatology. Philadelphia: W.B. Saunders, Latest Edition.	
	3. Bijlsma, J. W. J. EULAR Textbook on Rheumatic Diseases. London: BMJ / EULAR, Latest Edition.	
	4. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.	
	5. Essentials of Patient Safety, SCHS, Latest Edition.	
	6. Rheumatology secrets, Sterling G. West, MD, Third edition.	
	7. Others.	



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

4.24 Urology																									
4.24.1	<b>Duration:</b> 3.25 hours																								
4.24.2	<b>Format:</b> : Multiple Choice Questions																								
4.24.3	<b>No. of Questions:</b> 100																								
4.24.4	<b>Passing Score:</b> 65%																								
4.24.5	<b>Exam Centers:</b> Worldwide except USA and Canada																								
4.24.6	<b>Exam code:</b> UROLO																								
4.24.7	<p><b>Exam Content Areas</b></p> <table border="1"> <tbody> <tr> <td>Basics of Urologic Surgery</td> <td>5%</td> </tr> <tr> <td>Infections and Inflammations</td> <td>10%</td> </tr> <tr> <td>Reproductive and Sexual Function</td> <td>8%</td> </tr> <tr> <td>Trauma/Neurourology</td> <td>13%</td> </tr> <tr> <td>Urolithiasis / Obstruction</td> <td>15%</td> </tr> <tr> <td>Renal failure</td> <td>5%</td> </tr> <tr> <td>Adrenal / Neoplasm</td> <td>10%</td> </tr> <tr> <td>Prostate</td> <td>11%</td> </tr> <tr> <td>Pediatric Urology</td> <td>13%</td> </tr> <tr> <td>Patient Safety</td> <td>5%</td> </tr> <tr> <td>Professionalism and Ethics</td> <td>5%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	Basics of Urologic Surgery	5%	Infections and Inflammations	10%	Reproductive and Sexual Function	8%	Trauma/Neurourology	13%	Urolithiasis / Obstruction	15%	Renal failure	5%	Adrenal / Neoplasm	10%	Prostate	11%	Pediatric Urology	13%	Patient Safety	5%	Professionalism and Ethics	5%	<b>TOTAL</b>	<b>100%</b>
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<b>TOTAL</b>	<b>100%</b>																								
4.24.8	<p><b>Exam Reference Books</b></p> <ol style="list-style-type: none"> <li>1. Campbell-Walsh UROLOGY</li> <li>2. Atlas of Urologic Surgery</li> <li>3. Essentials of Patient Safety, SCHS, Latest Edition</li> <li>4. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition</li> </ol>																								



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 5. DENTAL

#### 5.1 Endodontics

5.1.1 **Duration:** 2.5 hours

5.1.2 **Format:** : Multiple Choice Questions

5.1.3 **No. of Questions:** 70

5.1.4 **Passing Score:** 75%

5.1.5 **Exam Centers:** Worldwide except USA and Canada

5.1.6 **Exam code:** ENDO

#### 5.1.7 **Exam Content Areas**

Dental Pulp and Periapical Tissues	15%
Endodontic Pain and Emergencies	15%
Primary Endodontic Treatment Procedures	20%
Endodontic Failures	10%
Endodontic Surgeries	10%
Trauma	5%
Regenerative Procedures	5%
Endo-Perio Lesions	5%
Medically Compromised Patients	5%
Endodontic Pharmacology	5%
<b>TOTAL</b>	<b>100%</b>

#### 5.1.8 **Exam Reference Books**

1. Pathways of the Pulp 9th Edition by Cohen S. Hargaves K.M. eds. Mosby.
2. Seltzer and Bender's Dental Pulp, Edited by K.M. Hargreaves, H.E. Goodis and F.R. Tay. Quintessence Publishing, Latest Edition.
3. Gutmann J L, Harrison J W. Surgical Endodontics. St Louis: Ishiyaku EuroAmerica, Latest Edition.
4. Little J, Falace D, Miller C, Rhodus N. Dental Management of the Medically Compromised Patient. Mosby Elsevier, Latest Edition.
5. Ingle, J. I. and Backland, L. K. Endodontics. Baltimore, Williams and Wilkins, Latest Edition.
6. Hargreaves, K.M., Cohen S, Berman L.H., Cohen's Pathways of the Pulp. Mosby Inc., Latest Edition.





## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 5.2 General Dentistry

5.2.1 **Duration:** 3.25 hours

5.2.2 **Format:** : Multiple Choice Questions

5.2.3 **No. of Questions:** 100

5.2.4 **Passing Score:** 60%

5.2.5 **Exam Centers:** Worldwide except USA and Canada

5.2.6 **Exam code:** GENDE

#### 5.2.7 **Exam Content Areas**

Basic	5%
Diagnostic Services	10%
Operative	15%
Endodontics	15%
Periodontics	10%
Oral Surgery	10%
Pediatric Dentistry	10%
Prosthodontics	15%
Orthodontic	4%
Others*	6%
<b>TOTAL</b>	<b>100%</b>

#### 5.2.8 **Exam Reference Books**

##### Orthodontic

1. An Introduction to Orthodontics, Third Edition, Laura Mitchell, 2007, Oxford: Oxford University Press.
2. Contemporary Orthodontics, Fourth Edition, William R. Proffit, Henry W. Fields and David M. Sarver 2006, Saint Louis: Mosby, Inc.

##### Restorative Dentistry

1. Textbook of Operative Dentistry/L. Baum, Ralph W. Phillips, Melvin R. Lund .Philadelphia: Saunders, 1995.
2. Fundamentals of Operative Dentistry: A Contemporary Approach, Third Edition, Summitt, James B.,Robbins, William J., Hilton, Thomas J ,Schwartz, Richard S.Quintessence Pub. Co
3. Sturdevant's Art & Science of Operative Dentistry) Hardcover (by Theodore M. Roberson (Editor), Harold O .Heymann(Editor ,(Edward J. Swift Jr.(Editor)Publisher Mosby

##### Prosthodontics

1. Complete Denture 5th Edition by Rahn,Hartwell.



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2. Boucher's prosthodontic Treatment for Edentulous Patients 10th ed. Fixed:
3. Contemporary Fixed Prosthodontics 4th edition by Rosensteil .
4. Fundamentals of Fixed Prosthodontics 3rd Edition by Shillenburg

### Periodontics

1. Carranza's Clinical Periodontology by Michael G. Newman DDS, Henry Takei DDS, Fermin A. Carranza Dr. Odont
2. Clinical Periodontology and Implant Dentistry

### Dental Material

1. Philips Science Of Dental Materials: 11th Edn. - Kenneth J. Anusavice .Publisher: Elsevier Science
2. Restorative Dental Materials - 12 Edn. Robert G. Craig Publisher: CV Mosby, Feb. 2006
3. Notes On Dental Materials - E.C. Combe Publisher: Kluwer Academic Publishers
4. Applied Dental Materials. McCabe, John F. Walls, Angus W. G.Publishers: Blackwell Pub

### Pedodontics

1. Pediatric Dentistry Infancy Through Adolescence by: Pinkham, J.R.,4th Edition,2005
2. Dentistry for the Child and Adolescent By:Macdonald,R.E.AND Avery ,D.R8 TH Edition ,2005;Mosby Co. Inc
3. Fundamental of Pediatric Dentistry by: Mathewson R.J. Primosch RE Third Edition,1995

### Endodontics

1. Endodontics by Ingel 6th edition
2. Pathways of the Dental Pulp 10th Edition by Cohen and Burns

### Oral Medicine and Oral Pathology

1. Oral Medicine Burket's Oral Medicine by Lynch, Brightman Greenburg, 11th edition pmph USA; 2008
2. Oral Pathology A Textbook of Oral Pathology by Shafer W., Hine M. and Levy B. 4th edition, W.B Saunders Co., Philadelphia 2009 Edu. Elsevier India, New Delhi



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 5.3 Oral Maxillofacial Surgery (Dental)

5.3.1 **Duration:** 3 hours

5.3.2 **Format:** Multiple Choice Questions

5.3.3 **No. of Questions:** 100

5.3.4 **Passing Score:** 60%

5.3.5 **Exam Centers:** Worldwide except USA and Canada

5.3.6 **Exam code:** OMS

#### 5.3.7 **Exam Content Areas**

Anesthesia and Pain Management	15%
Trauma	21%
Temporomandibular Joint	9%
Dentoalveolar Surgery	20%
Implant Surgery	6%
Reconstruction	10%
Cosmetic	2%
Deformities and Orthognathic Surgery	7%
Patient Safety	5%
Professionalism and Ethics	5%
<b>TOTAL</b>	<b>100%</b>

#### 5.3.8 **Exam Reference Books**

1. Contemporary Oral and Maxillofacial Surgery, Hupp, Ellis, and Tucker, Latest Edition, Mosby.
2. Handbook of Local Anesthesia, Malamed, Latest Edition, Mosby.
3. Harrison's Principles of Internal Medicine, Fauci et al, Latest Edition, McGraw-Hill.
4. Maxillofacial Surgery, Vol. 2, Ward-Booth, Schendel, Hausamen, Latest Edition, Elsevier.
5. Medical Emergencies in the Dental Office, Malamed, Latest Edition, Mosby.
6. Oral and Maxillofacial Surgery, Fonseca, Marciani, and Turvey, Latest Edition, WB Saunders.
7. Oral and Maxillofacial Trauma, Fonesca el al, Latest Edition, Elsevier Canada.
8. Oral and Maxillofacial Trauma, in 2 Volumes, Fonesca el al, Latest Edition, Saunders.
9. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.
10. Essentials of Patient Safety, SCHS, Latest Edition.



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 5.4 Orthodontics (Dentofacial Orthopedics)

5.4.1 **Duration:** 3 hours

5.4.2 **Format:** Multiple Choice Questions

5.4.3 **No. of Questions:** 100

5.4.4 **Passing Score:** 75%

5.4.5 **Exam Centers:** Worldwide

5.4.6 **Exam code:** ORDNT

#### 5.4.7 **Exam Content Areas**

Developing Dentofacial Problems (Interceptive orthodontics for Intra-arch problems)	10%
Dentofacial Orthopedics (Interceptive orthodontics for inter-arch problems)	10%
Major Dentofacial Abnormalities	8%
Orthodontic Treatment Phases and Mechanotherapy	8%
Contemporary Orthodontic Techniques	8%
Occlusion and Temporomandibular Disorders	6%
Interdisciplinary Care of Adult Patients	14%
Principles of Appliance Design and Biomechanics	6%
Photography, Radiology, Cephalometry and Record keeping	4%
Dental Materials	4%
Retention and Stability	8%
Patient Motivation	4%
Patient Safety	5%
Professionalism and Ethics	5%
<b>TOTAL</b>	<b>100%</b>

#### 5.4.8 **Exam Reference Books**

1. Contemporary Orthodontics (Latest Edition); William Proffit, Henry Fields, David Sarver. Publisher: Elsevier, St. Louis, USA.
2. Orthodontics, Current Principles and Techniques (Latest Edition); Lee Graber, Robert Vanarsdall, Katherine Vig. Publisher: Elsevier, St. Louis, USA.
3. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.
4. Essentials of Patient Safety, SCHS, Latest Edition.
5. Understanding Patient Safety, Robert Wachter and Kiran Gupta, Latest Edition.



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 5.5 Pedodontics

5.5.1 **Duration:** 3 hours

5.5.2 **Format:** Multiple Choice Questions

5.5.3 **No. of Questions:** 100

5.5.4 **Passing Score:** 70%

5.5.5 **Exam Centers:** Worldwide except USA and Canada

5.5.6 **Exam code:** PEDOD

#### 5.5.7 **Exam Content Areas**

Dental Development and Anomalies	10%
Prevention and Anticipatory Guidance	8%
Local Anesthesia and Pain Management	6%
Non-pharmacological Behavior Management	6%
Pharmacological Behavior Management	10%
Restorative Dentistry and Dental Material	6%
Special Healthcare Needs	10%
Pulp Therapy	10%
Orofacial Trauma	10%
Oral Pathology/Medicine	6%
Orthodontics and Space Management	8%
Patient Safety	5%
Professionalism and Ethics	5%
<b>TOTAL</b>	<b>100%</b>

#### 5.5.8 **Exam Reference Books**

1. The Hand Book of Pediatric Dentistry, Fourth edition, Arthur Nowak and Paul Casamassimo.
2. Pinkham. Casamassimo. Field. McTigue. Nowak, Pediatric Dentistry Infancy through Adolescence, Fifth Edition
3. McDonald. Avery. Dean, Dentistry for the Child and Adolescent, Ninth Edition.
4. Richard Welbury, Pediatric Dentistry, Third Edition.
5. The Reference Manual of the American Academy of Pediatric Dentistry 2017-2018.
6. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.
7. Essentials of Patient Safety, SCHS, Latest Edition.



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 5.6 Periodontics

5.6.1 **Duration:** 2.5 hours

5.6.2 **Format:** : Multiple Choice Questions

5.6.3 **No. of Questions:** 70

5.6.4 **Passing Score:** 75%

5.6.5 **Exam Centers:** Worldwide

5.6.6 **Exam code:** PEROD

#### 5.6.7 **Exam Content Areas**

Periodontal Structures	5%
Aetiology, Microbiology and Immunology	5%
Examination, Diagnosis, Risk Factors and Classification	10%
Non-Surgical Periodontal Therapy, Periodontal Medicine and Pharma-Therapeutics	7%
Periodontal Surgical Techniques and Complications	14%
Inter-relation between Periodontal Therapy and other Dental Specialties	7%
Periodontal Maintenance and long-term health	5%
Indications, Contraindications and Biomechanical Principles for Dental Implants	5%
Pre-Surgical Assessment, Treatment Planning and Site Preparation in Dental Implant Therapy	14%
Peri-implant Soft and Hard Tissue Management	8%
Surgical Complications and Management of Peri-Implant Diseases and Failures	5%
Maintenance of Dental Implants	5%
Patient Safety	5%
Professionalism and Ethics	5%
<b>TOTAL</b>	<b>100%</b>

#### 5.6.8 **Exam Reference Books**

1. Clinical Periodontology and Implant Dentistry, Sixth Edition 2015 (volume 1 and 2). Edited by Jan Lindhe and Niklaus Lang
2. Journal of Clinical Periodontology. Willy-Blackwell Publishing. Issues of years 2017, 2018 & 2019.
3. Periodontology 2000. Willy-Blackwell Publishing. Issues of years 2017, 2018 & 2019.
4. Journal of Periodontology. Official publication of the American Academy of Periodontology. Issues of year 2017, 2018 & 2019.
5. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition 6. Essentials of Patient Safety, SCHS, Latest Edition



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### 5.7 Prosthodontics

5.7.1 **Duration:** 2.5 hours

5.7.2 **Format:** Multiple Choice Questions

5.7.3 **No. of Questions:** 70

5.7.4 **Passing Score:** 75%

5.7.5 **Exam Centers:** Worldwide

5.7.6 **Exam code:** PRODE

#### 5.7.7 **Exam Content Areas**

Fixed Partial Dentures (FPD)	20%
Removable Partial Dentures	8%
Occlusion	8%
Team Approach	5%
Esthetic Considerations	9%
Removable Complete Dentures (CD)	14%
Endodontically Treated Teeth	5%
Communication with Lab	5%
Implant Prosthodontics	8%
Dental Materials	8%
Professionalism and Ethics	5%
Patient Safety	5%
<b>TOTAL</b>	<b>100%</b>

#### 5.7.8 **Exam Reference Books**

1. Clinical Aspects of Dental Materials, Marcia Gladwin, Michael Bagby, Lippincott Williams and Wilkins. Baltimore, Maryland, Latest Edition.
2. Contemporary Fixed Prosthodontics, S.F Rosenstiel, M.F. Land, J. Fujimoto Mosby, Latest Edition.
3. Failure in the Restored Dentition, Management and Treatment, M.D. Wise. Quintessence Publishing Co. Ltd. London, Latest Edition.
4. Fundamentals of Fixed Prosthodontics. H.T. Shillingburg, S. Hobo, LD.Whitsett, R. Jacobi, S.E Bracket. Quintessence Publishing, Chicago, Latest Edition.
5. Applied Occlusion. R. Wassel, A. Naru, J. Steele, F. Nohl. Quintessence Publishing London, Latest Edition.
6. Prosthodontic Treatment for Edentulous Patients. Complete Dentures and Implant-Supported Protheses. Zarb and Hobrik, Latest Edition.
7. McCracken's Removable Partial Prosthodontics, Alan B. Carr, David T. Brow, Latest Edition.



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 6. NURSING

#### 6.1 Midwifery

6.1.1 **Duration:** 2.5 hours

6.1.2 **Format:** : Multiple Choice Questions

6.1.3 **No. of Questions:** 70

6.1.4 **Passing Score:** 65%

6.1.5 **Exam Centers:** Worldwide except USA and Canada

6.1.6 **Exam code:** MIDWI

#### 6.1.7 **Exam Content Areas**

Antenatal Care	27%
Intrapartum Care	20%
Antepartum	8%
Postpartum Care	15%
Newborn Care	10%
Gynecological Care	5%
Pharmacology in Midwifery	6%
Counseling and Education	6%
Ethics and Legal Issues	3%
<b>TOTAL</b>	<b>100%</b>

#### 6.1.8 **Exam Reference Books**

1. Fetal Heart Monitoring
2. AWHONN`s Perinatal Nursing: Co-Published with AWHONN
3. Master the NCLEX-PN: Maternal/Newborn Nursing
4. Mayes` Midwifery: A Textbook for Midwives
5. Olds' Maternal-Newborn Nursing & Women's Health Across the Lifespan Plus NEW My Nursing Lab with Pearson e-text -- Access Card Package (9th Edition) by Michele R. Davidson
6. NCLEX-RN® Maternal-Neonatal Nursing Made Incredibly Easy! (Incredibly Easy! Series) by Lippincott





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### 6.2 Nursing Assistant

6.2.1 **Duration:** 2 hours

6.2.2 **Format:** : Multiple Choice Questions

6.2.3 **No. of Questions:** 100

6.2.4 **Passing Score:** 55%

6.2.5 **Exam Centers:** Worldwide except USA and Canada

6.2.6 **Exam code:** ARN

#### 6.2.7 **Exam Content Areas**

Nursing Fundamentals	20%
Adult Nursing	40%
Maternal- Child Nursing	30%
Unit Management and Leadership	10%
<b>TOTAL</b>	<b>100%</b>

#### 6.2.8 **Exam Reference Books**

1. Leda M. McKenry, Tessier, and Mary Ann Hogan. Mosby's Pharmacology in Nursing, Mosby Publishers, Latest Edition.
2. Dudek, SG, Nutrition Essentials for Nursing Practice; Philadelphia: Wolters Kluwer, Lippincott Williams and Wilkins, Latest Edition.
3. ANA Code of Ethics, Latest Edition.
4. SCFHS: Ethics for Health Professional Booklet, Latest Edition.
5. Berman, A and Snyder, S. Kozier and Erb's Fundamentals of Nursing Concepts, Process and Practice, USA: Pearson International, Latest Edition.
6. Pamela Lynn and, Marilee LeBon, Skill Checklists for Taylor's Clinical Nursing Skills: A Nursing Process Approach, Philadelphia: Lippincott Williams and Wilkins, Latest Edition.
7. Jarvis, C. Physical Examination and Health Assessment, St. Louis, Missouri, Saunders Elsevier, Latest Edition.
8. Day, R. A., Paul, P., Williams, B., Smeltzer, S. C., and Bare, Brunner and Suddarth's Canadian textbook of Medical-Surgical Nursing, Philadelphia: Lippincott Williams and Wilkins, Latest Edition.
9. Murray, S., McKinney, E. Foundation of Maternal- Newborn Nursing, Missouri: Saunders Elsevier, Latest Edition.
10. Wong, D.L., and Hockenberry, M.J, Wong's Nursing Care of Infants and Children, Philadelphia: Mosby, Latest Edition.
11. Sole, ML. Klein, DG. Moseley, MJ, Introduction to Critical Care Nursing, St. Louis, Saunders (Elsevier), Latest Edition.



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### 6.3 Registered Nurse

6.3.1 **Duration:** 4 hours

6.3.2 **Format:** : Multiple Choice Questions

6.3.3 **No. of Questions:** 150

6.3.4 **Passing Score:** 55%

6.3.5 **Exam Centers:** Worldwide

6.3.6 **Exam code:** NSPEC

#### 6.3.7 **Exam Content Areas**

Fundamentals	28%
Medical	23%
Surgical	20%
Pediatrics	16%
Community	13%
<b>TOTAL</b>	<b>100%</b>

#### 6.3.8 **Exam Reference Books**

1. Student Workbook and Resource Guide for Olds' Maternal-Newborn Nursing and Women's Health Across the Lifespan by Michele W Davidson RN Ph.D. CNM
2. Olds' Maternal-Newborn Nursing & Women's Health Across the Lifespan, 9th Edition by Michele R. Davidson
3. NCLEX-RN® Maternal-Neonatal Nursing Made Incredibly Easy by Lippincott
4. All-In-One Care Planning Resource, 3<sup>rd</sup> ed. By Swearingen, Elsevier
5. Lippincott Manual of Nursing Practice, 9<sup>th</sup> ed. Lippincott, Williams & Wilkins
6. Nursing Assistant: A nursing Process Approach, 10<sup>th</sup> ed. Hegner, Acella & Caldwell, Delmar
7. Care of the Patient in Surgery, 14<sup>th</sup> ed. By Rothrock, Elsevier
8. Fundamentals of Nursing: Standards and Practice, 4<sup>th</sup> ed. Delmar
9. Brunner & Suddarth's Textbook of Medical-Surgical Nursing, 12<sup>th</sup> ed. Lippincott, Williams & Wilkins



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 7. ALLIED HEALTH

#### 7.1 Dental Assistant

7.1.1 **Duration:** 3.25 hours

7.1.2 **Format:** : Multiple Choice Questions

7.1.3 **No. of Questions:** 100

7.1.4 **Passing Score:** 60%

7.1.5 **Exam Centers:** Worldwide except USA and Canada

7.1.6 **Exam code:** DASST

#### 7.1.7 Exam Content Areas

Dental Anatomy	7%
Dental Assistant	20%
Dental Health	10%
Dental Materials	20%
Dental Radiography	12%
Infection Control	12%
Preventive Dentistry	8%
Supplies and Logistics	3%
Communication and Patient Education	5%
Ethics	3%
<b>TOTAL</b>	<b>100%</b>

#### 7.1.8 Exam Reference Books

1. Modern Dental Assisting. By D.L. Bird; and D.S. Robinson. Published by Elsevier, Latest Edition.
2. In Practice Training Program for Dental Assistants. By the British Dental Journal, edited by M. Seward, Latest Edition.
3. Complete Review of Dental Assisting. Prentice Hall Health, Emily Andujo, Latest Edition.
4. Pearson's Comprehensive Dental Assisting, Tyler, Lori, Pearson, Latest Edition.
5. Infection Control and Management of Hazardous Materials for the Dental Team, Millar and Palenik, Latest Edition.



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### 7.2 Dental Hygienist

7.2.1 **Duration:** 2.75 hours

7.2.2 **Format:** Multiple Choice Questions

7.2.3 **No. of Questions:** 70

7.2.4 **Passing Score:** 50%

7.2.5 **Exam Centers:** Worldwide except USA and Canada

7.2.6 **Exam code:** DHE

#### 7.2.7 **Exam Content Areas**

Basic Anatomy and Physiology	10%
Patient Assessment and Diagnosis	10%
Treatment Planning and Disease Prevention	20%
Medically Compromised and Patients with Special Needs	10%
Microbiology and Pathology	5%
Preparation for Appointment	10%
Microbiology and Pathology	25%
Community Dental Hygiene	5%
Ethics	5%
<b>TOTAL</b>	<b>100%</b>

#### 7.2.8 **Exam Reference Books**

1. Clinical Practice of the Dental Hygienist. E.M. Wilkins; Lippincott Williams and Wilkins, Latest Edition.
2. Fundamentals of Periodontal Instrumentation. Nield-Gehring J.S., Lippincott Williams and Wilkins, Latest Edition.
3. Dental Hygiene: Theory and Practice, Darby and Walsh, Latest Edition.
4. Contemporary Periodontal Instrumentation. Diane H. Schoen; M. Catherine Dean, Latest Edition.
5. Comprehensive Review of Dental Hygiene, Mosby's, Michele Leonardi Darby, Latest Edition.



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 7.3 Medical Laboratory Technology

7.3.1 **Duration:** 3.25 hours

7.3.2 **Format:** : Multiple Choice Questions

7.3.3 **No. of Questions:** 100

7.3.4 **Passing Score:** 50%

7.3.5 **Exam Centers:** Worldwide except USA and Canada

7.3.6 **Exam code:** LABTO

#### 7.3.7 **Exam Content Areas**

Safety, Quality Control and Ethics	8%
Bacteriology	16%
Virology	5%
Mycology	5%
Immunology	5%
Parasitology	5%
Hematology	14%
Blood Bank	10%
Biochemistry	17%
Hormones	5%
Urinalysis	5%
Genetics	5%
<b>TOTAL</b>	<b>100%</b>

#### 7.3.8 **Exam Reference Books**

1. Laboratory Practice in Tropical Countries, Monica Cheesbrough (latest Edition)
2. Manual on Standard Operation Procedures, Sample Collection and Reference Ranges for Clinical Chemistry, Meliyanthi M. Gunatillaka (latest Edition)
3. Clinical Immunology and Serology, Christine Dorresteyn Stevens (latest Edition)
4. Molecular Cell Biology, Harvey Lodish (latest Edition)



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 7.4 Medical Laboratory Technology Assistant

7.4.1 **Duration:** 3 hours

7.4.2 **Format:** Multiple Choice Questions

7.4.3 **No. of Questions:** 100

7.4.4 **Passing Score:** 50%

7.4.5 **Exam Centers:** Worldwide except USA and Canada

7.4.6 **Exam code:** LABTE

#### 7.4.7 **Exam Content Areas**

Medical Records and Administration	7%
Professionalism and Medical Ethics	6%
Verbal and Written Communication	8%
Medical Law and Regulatory Guidelines	2%
Risk Management and Safety	7%
Medical Terminology	8%
Patient Care	13%
Room Preparation	7%
Supplies Management	6%
Infection Control	8%
Diagnostic Testing Procedures	8%
Medications and Emergency Management	8%
Phlebotomy and Processing Specimens	8%
Patient Education	4%
<b>TOTAL</b>	<b>100%</b>

#### 7.4.8 **Exam Reference Books**

1. Pearson's Comprehensive Medical Assisting by Helen Mills and Ron Maly (Latest Edition)
2. Lippincott Williams & Wilkins' Comprehensive Medical Assisting by Judy Kronenberger, Laura Durham, Denise Woodson (Latest Edition)
3. Medical Terminology: An Illustrated Guide by Barbara J. Cohen, Ann DePetris (Latest Edition)



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

7.5 Nutrition																											
7.5.1	<b>Duration:</b> 3 hours																										
7.5.2	<b>Format:</b> : Multiple Choice Questions																										
7.5.3	<b>No. of Questions:</b> 100																										
7.5.4	<b>Passing Score:</b> 50%																										
7.5.5	<b>Exam Centers:</b> Worldwide except USA and Canada																										
7.5.6	<b>Exam code:</b> NUTRO																										
7.5.7	<p><b>Exam Content Areas</b></p> <table border="1"> <tbody> <tr> <td>Fundamentals of Dietetics, Food Management and Services</td> <td>20%</td> </tr> <tr> <td>Obesity</td> <td>7%</td> </tr> <tr> <td>Cardiovascular Diseases</td> <td>7%</td> </tr> <tr> <td>Diabetes Mellitus</td> <td>13%</td> </tr> <tr> <td>Renal Diseases</td> <td>8%</td> </tr> <tr> <td>Liver Diseases</td> <td>7%</td> </tr> <tr> <td>Gastro-Intestinal Diseases</td> <td>8%</td> </tr> <tr> <td>Metabolic Disorders</td> <td>6%</td> </tr> <tr> <td>Inflammatory Diseases and Cancer</td> <td>8%</td> </tr> <tr> <td>Nutrition Support</td> <td>7%</td> </tr> <tr> <td>Community Nutrition</td> <td>5%</td> </tr> <tr> <td>Nutrition Through Life Cycle</td> <td>7%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	Fundamentals of Dietetics, Food Management and Services	20%	Obesity	7%	Cardiovascular Diseases	7%	Diabetes Mellitus	13%	Renal Diseases	8%	Liver Diseases	7%	Gastro-Intestinal Diseases	8%	Metabolic Disorders	6%	Inflammatory Diseases and Cancer	8%	Nutrition Support	7%	Community Nutrition	5%	Nutrition Through Life Cycle	7%	<b>TOTAL</b>	<b>100%</b>
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<b>TOTAL</b>	<b>100%</b>																										
7.5.8	<p><b>Exam Reference Books</b></p> <ol style="list-style-type: none"> <li>1. Understanding Normal and Clinical Nutrition. Sharon Rady Rolfes, Kathryn Pinna, Ellie Whitney, Brooks Cole, Latest Edition.</li> <li>2. Krause's Food and the Nutrition Care Process - Elsevier eBook on Intel Education Study, L. Kathleen Mahan, Janice L Raymond, Sylvia Escott-Stump, Latest Edition.</li> <li>3. Clinical Nutrition, Marinos Elia, Olle Ljungqvist, Rebecca Stratton, Susan A. Lanham-New, Wiley-Black, Latest Edition.</li> <li>4. Nutrition and Diagnosis-Related Care, by Sylvia Escott-Stump, Latest Edition.</li> <li>5. Charney, P., Malone, ADA Pocket Guide to Enteral Nutrition. American Dietetic Association, Latest Edition.</li> <li>6. V.A. Vaclavik and E.W. Christian, Essentials of Food Science, Springer Science, New York, Latest Edition.</li> </ol>																										



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 7.6 Occupational Therapist

7.6.1 **Duration:** 2.75 hours

7.6.2 **Format:** Multiple Choice Questions

7.6.3 **No. of Questions:** 70

7.6.4 **Passing Score:** 60%

7.6.5 **Exam Centers:** Worldwide except USA and Canada

7.6.6 **Exam code:** ORAPS

#### 7.6.7 **Exam Content Areas**

Neurological Conditions	20%
Physical Disabilities	13%
Developmental Disabilities	10%
Group Intervention	5%
Hand Dysfunctions	14%
Psychosocial Problems	13%
Pediatric Conditions	20%
Ethics and Professionalism	5%
<b>TOTAL</b>	<b>100%</b>

#### 7.6.8 **Exam Reference Books**

1. Willard and Spackman's Occupational Therapy, Latest Edition.
2. Pedretti's Occupational Therapy: Practice Skills for Physical Dysfunction, latest Edition.
3. Occupational Therapy for Children (Case-Smith), Latest Edition.
4. Fundamentals of Hand Therapy, Cooper, Latest Edition.
5. Handbook of Developmental Disabilities, Odom, Latest Edition.
6. Occupational Therapy in Mental Health: A vision for participation, Brown, Latest Edition.





## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 7.7 Pharmacy

7.7.1 **Duration:** 3.75 hours

7.7.2 **Format:** : Multiple Choice Questions

7.7.3 **No. of Questions:** 150

7.7.4 **Passing Score:** 60%

7.7.5 **Exam Centers:** Worldwide except USA and Canada

7.7.6 **Exam code:** PHOLO

#### 7.7.7 **Exam Content Areas**

Toxicology	5%
Pregnancy and Lactation	5%
Pediatrics	5%
Geriatrics	5%
Pharmacy Calculation and Compounding	15%
Pharmacokinetics	5%
Pharmaceutical Care and Disease State Management	35%
Medication Safety	5%
Over the Counter Medication	10%
Pharmacy Law and Ethics	10%
<b>TOTAL</b>	<b>100%</b>

#### 7.7.8 **Exam Reference Books**

1. Remington "The Science and Practice of Pharmacy" Beringer, Paul et al, (Latest Edition).
2. Pharmacotherapy: A Pathophysiologic Approach, (Latest Edition).
3. Ministry of Health Rules and Regulations:  
<http://www.moh.gov.sa/endepts/HealthCenters/Pages/Rules.aspx>
4. Saudi Food and Drug Authority Regulations and Guidelines: [http://www.sfda.gov.sa/en/drug/drug\\_reg/Pages/drug\\_reg.aspx](http://www.sfda.gov.sa/en/drug/drug_reg/Pages/drug_reg.aspx)



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 7.8 Pharmacy Technician

7.8.1 **Duration:** 2.5 hours

7.8.2 **Format:** : Multiple Choice Questions

7.8.3 **No. of Questions:** 100

7.8.4 **Passing Score:** 50%

7.8.5 **Exam Centers:** Worldwide except USA and Canada

7.8.6 **Exam code:** PHTCH

#### 7.8.7 **Exam Content Areas**

Pharmacy Calculation	20%
Pharmacy Compounding	10%
Over the Counter Medication	15%
Medication Safety	10%
Pharmacy Law and Ethics	10%
Chronic Illness	25%
Material Management	10%
<b>TOTAL</b>	<b>100%</b>

#### 7.8.8 **Exam Reference Books**

1. Remington " The Science and Practice of Pharmacy' 'Beringer, Paul et al. (Latest Edition)
2. Goodman and Gilman's "The Pharmacological Basis of Therapeutics" Hardman; Limbird; Gilman. (Latest Edition)
3. Saudi National Formulary. (Latest Edition)
4. Drug In**Format:** ion Handbook. LexiComp. (Latest Edition)
5. Pharmacotherapy: A Pathophysiologic Approach (Latest Edition)
6. [www.MOH.gov.sa](http://www.MOH.gov.sa)
7. [www.SFDA.gov.sa](http://www.SFDA.gov.sa)



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 7.9 Physical Therapy

7.9.1 **Duration:** 3.75 hours

7.9.2 **Format:** : Multiple Choice Questions

7.9.3 **No. of Questions:** 150

7.9.4 **Passing Score:** 60%

7.9.5 **Exam Centers:** Worldwide

7.9.6 **Exam code:** PHYSP

#### 7.9.7 **Exam Content Areas**

Kinesiology, Biomechanics and Ergonomics	8%
Anatomy and Physiology	12%
Clinical Decision Making and Differential Diagnosis	8%
Physical agents (Electrotherapy and Hydrotherapy)	10%
Therapeutic Exercises and Techniques	10%
Physical Therapy in Special Population (OBGYN, Pediatrics, Geriatrics)	12%
Material Management	10%
Cardiopulmonary Physical Therapy	8%
Sports Physical Therapy	8%
Neurorehabilitation	12%
Musculoskeletal rehabilitation	12%
<b>TOTAL</b>	<b>100%</b>

#### 7.9.8 **Exam Reference Books**

1. Prevention Practice A Physical Therapist's Guide to Health Fitness and Wellness, Catherine Rush Thompson, Latest Edition.
2. Therapeutic Exercise Foundations and Techniques by Carolyn Kisner, Latest Edition.
3. Tidy's Physiotherapy, Latest Edition.
4. Clayton's Electrotherapy and Actinotherapy, Latest Edition.
5. Physiotherapy Secrets, PP Mohanty & Monalisa Pattnaik.



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

7.10 Physical Therapy Assistant													
7.10.1	<b>Duration:</b> 2 hours												
7.10.2	<b>Format:</b> : Multiple Choice Questions												
7.10.3	<b>No. of Questions:</b> 70												
7.10.4	<b>Passing Score:</b> 50%												
7.10.5	<b>Exam Centers:</b> Worldwide												
7.10.6	<b>Exam code:</b> PHYTH												
7.10.7	<b>Exam Content Areas</b>												
	<table border="1"> <tbody> <tr> <td>Medical Knowledge</td> <td>17%</td> </tr> <tr> <td>PT Knowledge</td> <td>25%</td> </tr> <tr> <td>Orthopedics</td> <td>25%</td> </tr> <tr> <td>Neurology and Pediatrics</td> <td>19%</td> </tr> <tr> <td>Cardiopulmonary and Geriatrics</td> <td>14%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	Medical Knowledge	17%	PT Knowledge	25%	Orthopedics	25%	Neurology and Pediatrics	19%	Cardiopulmonary and Geriatrics	14%	<b>TOTAL</b>	<b>100%</b>
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<b>TOTAL</b>	<b>100%</b>												
7.10.8	<b>Exam Reference Books</b>												
	<ol style="list-style-type: none"> <li>1. Muscle: Testing and Function with Posture and Pain. 5th Edition, Florence Peterson, 2005.</li> <li>2. Clayton`s Electro Therapy, Theory and Practice, Angela Forster, 9th Edition 1999.</li> <li>3. Tidy`s Physiotherapy, 13th Edition.</li> <li>4. Physical Rehabilitation, Assessment and Treatment, 3rd Edition, Susan B.Q., Sullivan, 1994.</li> <li>5. Tide`s Physical Therapy, Ann Thomason, 12th Edition.</li> </ol>												



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

7.11 Psychology																			
7.11.1	<b>Duration:</b> 2.75 hours																		
7.11.2	<b>Format:</b> : Multiple Choice Questions																		
7.11.3	<b>No. of Questions:</b> 70																		
7.11.4	<b>Passing Score:</b> 55%																		
7.11.5	<b>Exam Centers:</b> Worldwide except USA and Canada																		
7.11.6	<b>Exam code:</b> CPSYA																		
7.11.7	<p><b>Exam Content Areas</b></p> <table border="1"> <tbody> <tr> <td>Schools of Psychology</td> <td>8%</td> </tr> <tr> <td>Biological Psychology</td> <td>18%</td> </tr> <tr> <td>Developmental Psychology</td> <td>13%</td> </tr> <tr> <td>Psychology of Learning</td> <td>20%</td> </tr> <tr> <td>General Psychology</td> <td>16%</td> </tr> <tr> <td>Personality and Individual Differences</td> <td>9%</td> </tr> <tr> <td>Clinical Psychology</td> <td>10%</td> </tr> <tr> <td>Research Methodology</td> <td>6%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	Schools of Psychology	8%	Biological Psychology	18%	Developmental Psychology	13%	Psychology of Learning	20%	General Psychology	16%	Personality and Individual Differences	9%	Clinical Psychology	10%	Research Methodology	6%	<b>TOTAL</b>	<b>100%</b>
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7.11.8	<p><b>Exam Reference Books</b></p> <ol style="list-style-type: none"> <li>1. Alan Carr and Muireann McNulty (2006). The Handbook of Adult Clinical Psychology. Routledge: London</li> <li>2. Alan D. Baddeley, Barbara A. Wilson, and Fraser N. Watts (1998). Handbook of Memory Disorders. John Wiley &amp; Sons: Chichester.</li> <li>3. A. Reber (1995). Dictionary of Psychology. Penguin Books: London.</li> <li>4. Glen O. Gabbard (2000). Psychodynamic Psychiatry in Clinical Practice (3<sup>rd</sup> Edition). American Psychiatric Press, Inc: Washington, DC.</li> <li>5. G. Neil Martin (2006). Human Neuropsychology (Second Edition). Pearson Education Limited: Edinburgh, UK.</li> <li>6. Arno F. Wittig (2001). Introduction to Psychology (Second Edition). McGraw-Hill: New York.</li> </ol>																		



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

7.12 Radiology Technologist																									
7.12.1	<b>Duration:</b> 2.5 hours																								
7.12.2	<b>Format:</b> : Multiple Choice Questions																								
7.12.3	<b>No. of Questions:</b> 100																								
7.12.4	<b>Passing Score:</b> 60%																								
7.12.5	<b>Exam Centers:</b> Worldwide																								
7.12.6	<b>Exam code:</b> RADSP																								
7.12.7	<p><b>Exam Content Areas</b></p> <table border="1"> <tbody> <tr> <td>Radiation Protection</td> <td>12%</td> </tr> <tr> <td>X-Ray</td> <td>13%</td> </tr> <tr> <td>CT</td> <td>10%</td> </tr> <tr> <td>MRI</td> <td>10%</td> </tr> <tr> <td>Ultrasound</td> <td>10%</td> </tr> <tr> <td>Nuclear Medicine</td> <td>10%</td> </tr> <tr> <td>Angio</td> <td>4%</td> </tr> <tr> <td>Fluoroscopy</td> <td>4%</td> </tr> <tr> <td>General Anatomy</td> <td>17%</td> </tr> <tr> <td>Patient Safety</td> <td>5%</td> </tr> <tr> <td>Professionalism and Ethics 5</td> <td>5%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	Radiation Protection	12%	X-Ray	13%	CT	10%	MRI	10%	Ultrasound	10%	Nuclear Medicine	10%	Angio	4%	Fluoroscopy	4%	General Anatomy	17%	Patient Safety	5%	Professionalism and Ethics 5	5%	<b>TOTAL</b>	<b>100%</b>
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<b>TOTAL</b>	<b>100%</b>																								
7.12.8	<p><b>Exam Reference Books</b></p> <ol style="list-style-type: none"> <li>1. Nuclear Medicine and PET/CT: Technology and Techniques 7th Edition, by Paul E. Christian &amp; Kristen M. Waterstram-Rich. ISBN-10: 0323071929.</li> <li>2. Sonography Principles and Instruments 9th Edition, by Frederick W. Kremkau. ISBN-10: 0323322719.</li> <li>3. Basic Radiation Protection Technology 6th Edition, by Daniel A Gollnick. ISBN10: 0916339149.</li> <li>4. Chesneys Radiographic Imaging 6th Edition, by Jhon Ball &amp; Tony Price. ISBN: 978-0-632-03901-2.</li> <li>5. Chesneys' Equipment for Student Radiographers, 4th Edition, by P. H. Carter, A. M. Paterson, M. L. Thornton, A. P. Hyatt, A. Milne, J. R. Pirrie. ISBN: 978-0- 632-02724-8.</li> <li>6. Essentials Of Ultrasound Physics 1st Edition, by James A. Zagzebski. ISBN-10: 0815198523.</li> <li>7. Clinical Sonography: A Practical Guide 5th Edition, by Roger C. Sanders, ISBN10: 1451192525.</li> <li>8. MRI in Practice 5th Edition, by Catherine Westbrook, John Talbot ISBN-10: 1119391962.</li> </ol>																								



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9. CT Imaging: Practical Physics, Artifacts, and Pitfalls, by Alexander C. Mamourian. ASIN: B01JXRVUPY.
10. Cross Sectional Anatomy CT & MRI 1st Edition, by Govind B. Chavhan & Jankharia Bhavin. ISBN-10: 9350250462.
11. Clark's Positioning in Radiography 13th Edition by A. Stewart Whitley ISBN-10: 149875693X.
12. Essential Physics of Medical Imaging, by Jerrold Bushberg. 3 rd Edition. ISBN: 9780781780575.
13. Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

7.13 Respiratory Therapist																									
7.13.1	<b>Duration:</b> 2.5 hours																								
7.13.2	<b>Format:</b> : Multiple Choice Questions																								
7.13.3	<b>No. of Questions:</b> 100																								
7.13.4	<b>Passing Score:</b> 55%																								
7.13.5	<b>Exam Centers:</b> Worldwide																								
7.13.6	<b>Exam code:</b> RESTE																								
7.13.7	<p><b>Exam Content Areas</b></p> <table border="1"> <tbody> <tr> <td>Patient Data</td> <td>8%</td> </tr> <tr> <td>Assessment and Evaluation</td> <td>15%</td> </tr> <tr> <td>Equipment Manipulation, Troubleshooting / Quality Control</td> <td>15%</td> </tr> <tr> <td>Patient Safety</td> <td>5%</td> </tr> <tr> <td>Therapeutic Procedures</td> <td>14%</td> </tr> <tr> <td>Airway Patency and Care</td> <td>12%</td> </tr> <tr> <td>Bronchial Hygiene Techniques</td> <td>6%</td> </tr> <tr> <td>Infection Control</td> <td>5%</td> </tr> <tr> <td>Mechanical Ventilation</td> <td>12%</td> </tr> <tr> <td>Pulmonary Rehabilitation and Home Care</td> <td>5%</td> </tr> <tr> <td>Patient Education</td> <td>3%</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	Patient Data	8%	Assessment and Evaluation	15%	Equipment Manipulation, Troubleshooting / Quality Control	15%	Patient Safety	5%	Therapeutic Procedures	14%	Airway Patency and Care	12%	Bronchial Hygiene Techniques	6%	Infection Control	5%	Mechanical Ventilation	12%	Pulmonary Rehabilitation and Home Care	5%	Patient Education	3%	<b>TOTAL</b>	<b>100%</b>
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7.13.8	<p><b>Exam Reference Books</b></p> <ol style="list-style-type: none"> <li>1. Egan’s Fundamentals of Respiratory Care – Textbook and Workbook Package, Latest Edition.</li> <li>2. Pilbeam’s Mechanical Ventilation: Physiological and Clinical, Latest Edition.</li> <li>3. Wilkins’ Clinical Assessment in Respiratory Care, Latest Edition.</li> </ol>																								





## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS

### 8. COMMUNICATION (check all that apply)

<input type="checkbox"/>	Announcement
<input type="checkbox"/>	Awareness
<input type="checkbox"/>	Training
<input type="checkbox"/>	Other specify

### 9. DEFINITIONS

9.1	HCP – Healthcare Professional
9.2	DHCC – Dubai Healthcare City
9.3	DHCR – Dubai Healthcare City Authority – Regulatory
9.4	
9.5	

### REVISION HISTORY

S No	Summary	Amend Type*	Page	Issue No	Issue Date
1	Re-Format:				
2					
3					
4					
5					
6					

\* Amend Type: New / Add/ Modify / Cancel



## GUIDELINE – DHCA LICENSING EXAM GUIDE FOR PROFESSIONALS