

## **Examination information for Master of Nuclear Medicine MedEx.**

The entrance examination consists of 40 True False multiple-choice questions and candidates are expected to answer all. There is no minus marking for incorrect answer.

The duration of the examination is 90 minutes.

## **Scope of Knowledge for Master of Nuclear Medicine MedEx.**

The examination will cover the following topics

- Fundamental knowledge in Clinical Nuclear Medicine (NM) which includes the radiopharmaceuticals used, principles of detection techniques, imaging protocols and basic clinical applications in the human body systems (both diagnostic and therapeutic purposes), and in-vivo non-imaging techniques
- Fundamental knowledge in Nuclear Medicine Physics emphasizing on basic radiation physics and dosimetry, principles of radiobiology, principles of radiation protection and safety, NM instrumentation, computers and data processing in NM and principles of emission tomography – SPECT and PET.
- Fundamental knowledge in Nuclear Pharmacology emphasizing on the principles of radionuclides and radiopharmaceuticals production, methods of radiolabeling, quality control, diagnostic and therapeutic radiopharmaceuticals and their most important clinical applications
- Basic concepts in clinical radiology like instrumentation, medical imaging physics, radiological procedures, general clinical applications
- Basic knowledge in imaging based clinical anatomy and physiology