



College of Medical Physicists of India

*Kuppusamy Thayalan Ph.D.,
Indian Member, professional
development committee, AFOMP
Dr. Kamakshi Memorial Hospital
Chennai, India,
Email: kthayalan@gmail.com.*

Introduction

- Association of Medical Physicists of India (AMPI)
(1973, 1500 members)
- Medical physics education
 - (i) P.G. Diploma in Radiological physics – 1 year,
 - Eligibility Masters degree (M.Sc) in Physics
 - (ii) M.Sc. Medical Physics (2/3 year)
 - Eligibility – Bachelors degree in Science (Physics/
applied physics)
 - (iii) R.S.O Examination (BARC, AERB,
Government of India)

The college of Medical Physics of India (CMPI)

- Established in 2009

Vision Statement

“To establish and maintain the standards in the practice of Medical Physicists in the disciplines of Diagnostic Imaging, Radiation Oncology and Nuclear Medicine by certifying the Medical Physicists”

CMPI-Mission statement

- “To serve the public and the medical profession by certifying that its Members have acquired, demonstrated, and maintained a requisite standard of knowledge in medical physics and demonstrated the competence required for the practice of Diagnostic Imaging, Radiation Oncology and Nuclear Medicine Physics”

Certification for Medical Physicists

- Maintaining standard in the practice of medical physics in human healthcare programme, is one of the important components towards the fulfillment of objectives of medical imaging and radiation therapy.
- Certification of medical physicists is therefore necessary to satisfy the objectives of medical applications of ionizing radiation. This is particularly very important in the era of modern technology in Imaging and Radiation Therapy

Benefits of Certification Program

- For a large Country like India, number of colleges offering Medical Physics Program increases every year. The syllabus and curriculum, training facilities vary significantly among these institutions.
- Certification program with a common syllabus and examination process, would ensure a standard in the practice of Medical Physics

The structure of CMPI

- Chairman,
- Vice-Chairman,
- Registrar
- Chief Examiner
- Secretary cum Treasurer
- Four members (one of the member will be nominated by AMPI-EC from a teaching university/ institution having medical physics course)

Examination Process

- The examination: Part I & Part II.
- Part I: written examination 3 papers, minimum pass 50% in each paper and 60% aggregate
- Part II will be an oral examination.
- The candidate will have to successfully complete Part I to appear for Part II.

Certification eligibility & Written papers

- M.Sc. in Medical Physics or M.Sc (Phy) + PG Diploma in Radiological Physics from a recognized university with two years experience prior to appearing for the membership examination.
- **Written exam theory papers (Part- I)**
- Paper I – General Medical Physics
- Paper II – Radiobiology and Radiation Protection
- Paper III – Specialty Paper (Rad. Oncology Physics)

Question paper pattern

- Paper I,II & III
 - Section I- 25 Multiple Choice Questions for one mark each (Total 25 marks)
 - Section II – 5 Definitions / short answers for two marks each (Total 10 marks)
 - Section III – 4 short answers (out of six questions) for 5 marks each (20 marks)
 - Section IV – 2 descriptive answer questions (out of 4) for 10 marks each (20 marks)

Part II – Oral Examination

1. Presentation for 10 minutes of any topic (Small project, Commissioning, any new ideas etc).
2. Each examiner will be assigned 15-20 minutes to examine the candidate on a particular topic as follows:
 - a. Radiation Therapy equipment, commissioning and Quality assurance
 - b. Treatment planning and Delivery of IMRT & IGRT
 - c. Special Techniques, SRS, SRT, TBI and TSET"
 - d. Radiation Dosimetry - Dosimeters and Methods
 - e. Radiation Safety in Radiotherapy
 - f. Brachytherapy

The First Examination -2010

- Part I Written examination conducted on 5th June 2010
- 14 Candidates Registered, 11 appeared
- All the 11 candidates were successful
- Part II – Oral examination Scheduled for 17th Nov
- All the 11 candidates have registered for the examination

Thank you for your attention