

Question Paper

Exam Date & Time: 01-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER M.Sc. NMT DEGREE EXAMINATION - JUNE/JULY 2022
SUBJECT: NMT5203 - NUCLEAR MEDICINE PROCEDURES
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Section A: Diagnostic Nuclear Medicine Procedures

Answer all the questions.

- 1) What do you mean by viable myocardium? How will you check whether the myocardium is viable or not using nuclear medicine imaging? (20)
- 2A) Describe the pattern of normal and abnormal radiopharmaceutical distribution in patients being evaluated for communicating hydrocephalus. (10)
- 2B) Explain the probable causes for "hot nose" and absent parenchymal uptake in brain death imaging. (10)
- 2C) What is the diagnostic procedure to differentiate between acute and chronic cholecystitis. (10)
- 3A) How does a thyroid scan help differentiate between Grave's disease and thyroiditis. (5)
- 3B) What properties of Ga-67 favour its use as infection imaging agent? (5)

Section B: Therapeutic Nuclear Medicine Procedures

Answer all the questions.

- 4) Elaborate on patient preparation, education and radiation safety aspects for I-131 lipiodol TARE. (20)
- 5) Write in detail the physical and chemical characteristics of Ac-221. (10)
(5+5 = 10 marks)
- 6A) Write short note on Braggs ionization peak. (5)
- 6B) Write short note on patient preparation for radiosynovectomy. (5)

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