

[AHS 0321]

MARCH 2021

Sub. Code: 2113

(AUGUST 2020 EXAM SESSION)

B.Sc. NUCLEAR MEDICINE TECHNOLOGY

SECOND YEAR (Regulations 2010-2011)

PAPER III – NUCLEAR MEDICINE TECHNIQUES AND  
SPECIAL PROCEDURES

Q.P. Code : 802113

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

**I. Elaborate on:**

(3 x 10 = 30)

1. Stress and Rest Myocardial perfusion scintigraphy indications, radiopharmacy, stress types, acquisition parameters.
2. A 48 yrs old female patient was suffering from severe pain in the hip near prosthesis. The doctor has a Query of Infection in site of prosthesis. What scan would you do to confirm it?
3. Explain  $I^{131}$  MIBG scintigraphy.

**II. Write Notes on:**

(8 x 5 = 40)

1. What are specific and Non specific tumor agents?
2. Explain the procedure for GI bleed
3.  $I^{131}$  uptake studies.
4. The patient is diagnosed with the sudden weight loss and palpitations. What will be the diagnosis and what scan will you do to confirm it?
5. What are the precaution should be done before administration of Labelled Monoclonal Antibodies?
6. Explain single Isotope and Dual isotope methods in Parathyroid scintigraphy.
7. Explain about the hepatobiliary scintigraphy.
8. Write in Brief about Meckel's Diverticulum.

**III. Short Answers on:**

(10 x 3 = 30)

1. Rps used for renal cortical imaging, Localization and Indications.
2. Difference between IRA and IRMA.
3. What is ERPF?
4. Define Stroke volume.
5. What are the Rps Used for Brain Death imaging and its mechanism of localization?
6. Define Diuretics with example.
7. ELISA.
8. What is Cisternography?
9. Gastric emptying studies.
10. What the hormones produced in adrenal gland?

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