ALL INDIA INSTITUTE OF MEDICAL SCIENCES

Name of Course: M.D.(Nuclear Med.) Paper No./Section 1	
	Y,2010
 All Questions are compulsory Questions Carry marks as indicated 	
Each Question carries 10 marks	
1) Explain transient and secular equilibrium with examples.	10
2) Quality Control tests of PET-CT System.	10
 Write about the principle of collimation and various Collimators used in Nuclear Medicine. 	10
4) keceiver Operating Characteristic Cure.	10
5) Describe about various phantoms used in Nuclear Medicine.	10
6) Half value layer	10
7) Principle of GM counter & Importance of Quencher	10
8) What is PACS facility, utility in present day health care scenario.	10
9) Filters in Camera Systems – utility and importance.	10
10) ICRP recommendations of 2007.	10

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Name of Course: M.D.(Nuclear Med.) Paper No./Section 2	
Max.Marks: 100 Time Allowed: 3 hours Month/Year of Exam:	MAY,2010
 All questions are compulsory. Marks as indicated against each question. 	
Each Question carries 10 marks	
1. Discuss about quality control of PET radiopharmaceuticals	10
2. Deterministic effects of radiation.	10
3. Write about radiation protection procedures to be adopted in him dose iodine therapy ward.	h 10
4. What are the current concept about biological effects of low level radiation exposure?	10.
5. Write briefly about various radioisotope generators.	10
6. Write in detail about decay scheme of ¹³¹ I	10
7. Factor affecting localization of radiopharmaceuticals-significan	ice. 10
8. Personal Monitoring	10
9. Radioactive waste disposal & its implementation.	10
10. Short Note (1) ALARA (2) Transport index	$5 \times 2 = 10$

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Name of Course:	M.D. (Nuclear Med.)	Paper No./Section 4	
			7, 2010
1. All Questi	ions are compulsory. shown against each questic	m.	
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1. Currendiffere	nt concepts and practices in entiated thyroid cancer.	n the management of	
2. Present and it	nt status of neuroreceptor is clinical applications.	maging by nuclear medicine	20
3. Write	e about metabolic imaging	of myocardium.	10
	l perfusion evaluation with		10
5. Role	of PET-CT in evaluation of	of carcinoma of unknown primary.	10
	ent status of Radioimmuno		10
7. PET	-MR reality or A dream		10
8. Co-r	egistration technique.		10
9. PET	Imaging in Dementia.		10
10. Nuc	lear Medicine in Drug Dev	velopment.	10
			