PARUL UNIVERSITY DEPARTMENT OF PARAMEDICAL AND HEALTH SCIENCES 1st Internal Exam, Mar 2021-22

Year: 1styear M.Sc. Subject code: 19210105 Subject Name: Nuclear Medicine Technology Date:09/03/2022 Time: 10:30 am Total Marks: 40 marks

Instructions:

1. Attempt all questions from each section.

2. Figures to the right indicate full marks.

3. Make suitable assumptions wherever necessary.

Q.1:	Answer the following Questions (Any 5 out of 7)(Each 1 Mark)	05 marks
	(i) what is specific activity	
	(ii) Name all the facial bone &cranial bones	
	(iii)what is exponential Decay	
	(iv)who discovered the Protons	
	(v)who discovered the Neutrons	
	(vi)What is the length of fallopian tube	
	(vii)what is Parent/ Daughter decay	
Q.2:	Answer the following Questions(Any 5 out of 7)(Each 2 marks)	10 marks
	(i) what are Radio-isotopes	
	(ii)what is TLD Badge & its uses	
	(iii)write a short note on RSO	
	(iv) Draw the Layout of PET Scan	
	(v) Draw the Layout of Gamma Camera	
	(vi) write a short note on Handling of radioactive waste	
	(vii) write a short note on Radioactivity	
Q.3:	Answer the following Questions (Any 2 out of 3)(Each 5 Marks)	10 marks
	(i) Explain the Basic principles Gas filled detectors	
	(ii) Write a Short Note on Ionization chambers	
	(iii) Write a Short Note on Proportional counters	
Q.4:	Answer the following Questions(Any 2 out of 3)(Each 7.5 marks)	15 marks
	(i) Scintillation detectors-basic principles	
	(ii) Atomic composition and structure	
	(iii) Geiger Muller counters	