MMRI

MOLECULAR MEDICINE RESEARCH INSTITUTE

Employee Name: _____

Score out of 57 Questions:

Study Questions Answer Sheet

Class7Training: Radiation Safety Fundamentals Training Manual

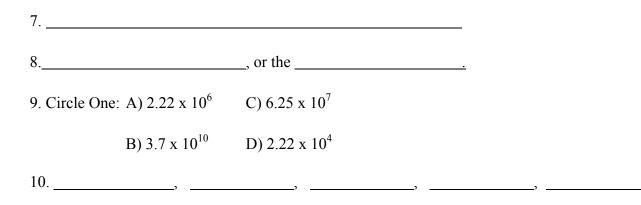
Use this sheet to write your answers to the study questions. Do not write in the training manual.

1.								,		
2.						,				
3.										
4.	Α	В	С	or	D (circle one)					
5.						,	 			

6. Complete the following tables:

Table 3 Curie Subunits						
Unit	Abbr.	dps	dpm			
curie	Ci	3.7 x 10 ¹⁰	2.2 x 10 ¹²			
millicurie	mCi		2.2 x 10 ⁹			
microcurie	μCi	3.7 x 10 ⁴				
nanocurie	nCi		2.2×10^{-3}			
picocurie	pCi	3.7 x 10 ⁻²				

Table 4 Becquerel Subunits						
Unit	Abbr.	dps	dpm			
becquerel	Bq	1	60			
kilobecquerel	kBq		6 x 10 ⁴			
megabecquerel	MBq	1 x 10 ⁶				



11. Complete the following:

Type of Radiation	Alpha	Beta	Gamma/X-ray	Neutron
Mass				
Charge				
Range				
Shielding				
Hazard				

12.

13. 1	3
2	4

14. Complete the following:

	Source	Annual Dose (mrem/year)
	terrestrial	
	cosmic	
Natural Background	Internal Emitters	
	Inhaled (Radon)	
	Nuclear Fallout	
	Medical Exposures	
Man-made Background	Consumer Products	
	Nuclear Facilities	
	Rounded Total	

15.										
16.	A	В	С	or	D (circle one)					
17. a.					b	c			_d	
18										
20										
21										
22					,		_, and	,		

23.	А	В	С	or	D (circle one)				
24.	А	В	С	or	D (circle one)				
25.	Tr	ue o	r Fa	lse (circle one)				
26.	A	В	С	or	D (circle one)				
27. 1.					2		3		
28. W	hole	во	dy_		, Eyes	, Skin		, Extremities	
29									
	Cor Ast Cos Che Me	ntam besto smic emic dica	ninat os ex rad cal e l X-	tion of tion of tiatio tatio xpos rays	exposures ures n exposures ures				
					?				
32.									
	 33. Aximizing time in an area Minimizing time in an area Maximizing distance in an area Minimizing distance in an area Maximizing shielding in an area Minimizing shielding in an area Maximizing contamination in an area 34								
							_		
36. 🗆 □ □ □	Re Ex Le	ceiv cess aks	ving sive of b	an X mov reak	ping X-ray ement in contamination and s in radioactive waste con- to sunlight				

37	,,	. <u> </u>
38		

- 39. \Box Chewing gum in a contamination area
 - □ Entering a radiation area without proper dosimetry.
 - □ Not covering wounds prior to handing radioactive material
 - □ Not using a fumehood when required by procedure
 - □ Receiving a medical x-ray

 \Box Working with radioactive materials that can be absorbed through the skin without protective equipment.

40.		,,	
	1		
	2		
	3		
42.			

- 44. □ Work area radiological conditions
 - □ Hot work permit requirements
 - □ Material safety data sheets
 - □ Description of protocols
 - □ Dosimetry requirements
 - \Box Protective clothing
 - □ Lock out/ tag out permit number
 - □ Authorizing signatures
 - \Box Fire sytsms check out
 - □ Workers's current dose
- 45. \Box Workers must read the RUA
 - \Box Workers must write the RUA
 - □ Workers must comply with the RUA requirements
 - □ Workers may substitute controls specified in the RUA

46. _____

47.	Radiation Area	

Radioactive Materials Area_____

48. A) _____dpm

B)	Bq

C)	uCi
· ·	

- 49. A, B, C or D (circle one)
- 50. A, B, C or D (circle one)
- 51. \Box natural sources food, soil, etc.
 - \square man-made sources medical
 - \Box occupational sources
 - $\hfill\square$ non-ionizing sources
- 52. True or False (circle one)
- 53. A, B, C or D (circle one)
- 54. True or False (circle one)

55. S		
W		
Ι		
M		
56	_and	_
57. A, B, C or D (circle one)		
Employee Signature:		Date:
RSO Signature:	Jan Rydzewski	Date:
	Jah Kyuzuwski	