NPTEL » Fundamentals of Nuclear Power Generation

1 point

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Unit 14 - Week 12:Waste Management

utline	Assessment 12	
n NPTEL online		Due on 2020-04-22, 23:59 I
k?	As per our records you have not submitted this assignment.	Due 011 2020-04-22, 20.03 N
erequisite	The maximum level of activity allowed for low-level waste is	1
ndamentals of	○ 12 kBq/t	
wer	○ 12 MBq/t	
dioactivity and	○ 12 GBq/t	
ctions	O 12 TBq/t	
clear Fission	No, the answer is incorrect. Score: 0	
n Posstion in	Accepted Answers:	
Reaction in	12 GBq/t	
	2) Major contribution towards the activity of nuclear mill tailings comes from the radioactive decay of	1
tor ulics	○ U-233	
	○ U-234	
r Control	○ U-235	
al Reactors	○ U-238	
r Reactors	No, the answer is incorrect. Score: 0	
neactors	Accepted Answers: U-238	
Fusion	0-230	
cal Effects of	3) Which acid is commonly used during heap leach recovery process?	1
	acetic acid	
or Safety &	o sulphuric acid	
	O phosphoric acid	
Management	O nitric acid	
	No, the answer is incorrect. Score: 0	
lassification & Il Tailings	Accepted Answers: sulphuric acid	
Il methodologies	Carpitatio dota	
1	4) Rn-222 is a highly radioactive isotope with a half-life of about 3.82 days. Its primary mode of decay	is 1
ment 12	Ott de a sur	
1	eta^+ decay	
	$oldsymbol{eta}^-$ decay	
5	α decay	
	γ emission	
	No, the answer is incorrect.	
	Score: 0 Accepted Answers:	
	α decay	
	5) The isotope of Radon primarily responsible for lung cancer is	1
	○ Rn-226	
	○ Rn-222	
	○ Rn-220	
	○ Rn-218	
	No, the answer is incorrect.	
	Score: 0 Accepted Answers:	

No, the answer is incorrect. Score: 0 Accepted Answers: U-238
 3) Which acid is commonly used during heap leach recovery process? acetic acid sulphuric acid phosphoric acid nitric acid
No, the answer is incorrect. Score: 0 Accepted Answers: sulphuric acid
4) Rn-222 is a highly radioactive isotope with a half-life of about 3.82 days. Its primary mode of decay is
eta^+ decay eta^- decay eta^- decay eta^-
$lpha$ decay γ emission
No, the answer is incorrect. Score: 0 Accepted Answers: α decay
5) The isotope of Radon primarily responsible for lung cancer is Rn-226
○ Rn-222 ○ Rn-220 ○ Rn-218
No, the answer is incorrect. Score: 0 Accepted Answers: Rn-222
 6) When a high energy (> 2MeV) γ-photon strikes a nucleus, the most probable kind of interaction is pair production photoelectric effect Compton effect any of the above, depending on nucleus
No, the answer is incorrect. Score: 0 Accepted Answers: pair production
7) Mill tailings are generally deposited under water to avoid oxidation provide radiation shielding avoid blowing with dust
O facilitate all of the above No, the answer is incorrect. Score: 0 Accepted Answers: facilitate all of the above
8) Among the followings, which one can be classified as a high-level radioactive waste? Scrapped control rods waste liquid from reprocessing plant concrete structure after decommission of plant solidified waste from reactor core
No, the answer is incorrect. Score: 0 Accepted Answers: waste liquid from reprocessing plant
9) tailing pond requires the largest volume of sand for its construction among the three designs.
No, the answer is incorrect. Score: 0 Accepted Answers: (Type: String) downstream
10) Delay-and-decay mode of disposal is most suitable for level nuclear waste. No, the answer is incorrect. Score: 0 Accepted Answers: (Type: String) intermediate