

Padasalai⁹s Telegram Groups!

(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- Padasalai's NEWS Group https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA
- Padasalai's Channel Group https://t.me/padasalaichannel
- Lesson Plan Group https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw
- 12th Standard Group https://t.me/Padasalai 12th
- 11th Standard Group https://t.me/Padasalai_11th
- 10th Standard Group https://t.me/Padasalai_10th
- 9th Standard Group https://t.me/Padasalai 9th
- 6th to 8th Standard Group https://t.me/Padasalai_6to8
- 1st to 5th Standard Group https://t.me/Padasalai_1to5
- TET Group https://t.me/Padasalai_TET
- PGTRB Group https://t.me/Padasalai_PGTRB
- TNPSC Group https://t.me/Padasalai_TNPSC

6.NUCLEAR PHYSICS

1.	The at	omic number o	of natura	al radioactive	element i	s	<u>, 181.</u> 9					
	(Grea	ter than 83	1	Less than 83		1	Not de	efined	/	Atleas	t 82)	
2.	The ph	nenomenon of	radioact	ivity was disc	overed b	у	_in 18	96.				
	(Marie	e Curie	/	Otto Hahn	/	Henry	Becqu	uerel	/	Strassi	man)	
3.	$92U^{235}$	$+_0 n^1 \rightarrow {}_{56} Ba^{14}$	1 + $_{36}$ Kr	$^{92} + 3_0 n^1 + Ene$	ergy . Th	is fissio	n reacti	ion relea	ises	_ MeV	energy.	
	(2×1)	10 ⁵ /	2 × 10	4 /	2×10	3	/	2 × 10	$)^2$			
4.	Accord	ding to Einstei	n's mass	s energy relati	on E = m	nc^2 , the	differe	nce in m	ass is co	nverte	d into _	·
	(Ener	egy /	Power	/	Force		/	Work) 980			
5.	The fu	sion process c	an be ca	rried out only	at extrem	nely hig	h temp	erature	of the or	der of		
	(10^5)	K to 10 ⁶ K	/	$10^4 \text{K} \text{ to } 10^6$	K	/	$10^7 \mathrm{K}$	to 10 ⁹	K	/	$10^4 \mathrm{K}$	to 10^5K)
6. The safe limit for receiving radiation is about milli roentgen per week.												
	(1000	/	500 /	100		/	400)				
7.	Pitchb	lende is an ore	of	ai.Or9								
	(Uranium	1000	Plutonium		/	Franc	ium		/	Califor	mium)
8.	There	aree	lements,	have been ide	entified a	as radioa	active s	ubstanc	es with a	tomic 1	number	less than 83.
	(2 /	5	/ 29	/	6) (
9.	There	have been	rac	di <mark>oa</mark> ctive <mark>su</mark> bs	tances di	iscovere	d so fa	r.				
	(21 /	26	/	29	/	2)				
10.	Artific	ial Radioactiv	ity was o	discovered by		in 193	4.					
	(Marie Curie	1000	Irene Curie		1	Otto I	Hahn	1000	Strassi	nan) , , , , , , ,
11.	The pa	article, which is	s used to	induce the ar	tificial d	isintegr	ation is	s termed	as	pa	rticle.	
	(injected	/	ejected	/	conve	ted	/	projec	tile		
		- ₂ He ⁴										
	($_{6}C^{13}$ /	${}_{6}C^{12}$	/	$_{7}N^{13}$	/	$_{7}N^{14}$)				
13.	·	is the trac	ditional	unit of radioad	ctivity.							
	(Rontgen	1000	Curie	/	Becqu	erel	/	All of	these)	
14.	·	is define	ed as the	e quantity of o	ne disint	egratior	per se	cond.				
	(Rontgen	/	Curie	/	Becqu	erel	1	Ruther	ford)	
15.	dasal	is the SI	unit of r	adioactivity.								
	(Rontgen	/	Curie	/	Becqu	erel	/	Ruther	ford)	
16.	·	was disco	vered by	y Martin Klap	roth.							
	(==8)	Uranium	1	Plutonium		1	Franc	ium		1	Thoriu	m)
17.	•	_ rays are elec	tromagn	etic waves co	nsisting o	of photo	ns.					
	(Beta /	Alpha	/	Gamn	na	/ Al	l of thes	e)			
ΔΝΙΝ	ΙΔΠΔςΔΙ	N M.Sc. M.Fd.	TGT SCII	ENCE ST IOSEP	H'S M H	S S POO	ΝΔΜΔΙ	IFF M∩	RII F-729	909943	0	

18	1920	rays tra <mark>vel</mark> v	with the	speed of figh	ıt.		WWW.	irbinp	osc.com	
((Beta /	Alpha	/	Both	/ Gai	mma)			
19. l	In	Soddy	and Faj	an framed th	e displace	ement la	ws			
00((250)	1913 /	1931)5000/	1934	1	1943)			
20. 9	$_{92}U^{238}$	→ 90Tl	$n^{234} +$	₂ He ⁴ This re	eaction is	an exam	ple for	\overline{b}_{M}		
((β - decay	/	α - decay		/	γ - decay	/	None of these)
21. 1	In	there is no c	hange i	n the mass n	umber of	the daug	thter nucleus	but the a	ntomic number i	ncreases by one
((β - decay	/	α - decay		/	γ – decay	/	All of these	(May 1)
22. 1	In a nu	clear reaction,	the eler	nent formed	as the pro	duct nu	cleus is ident	ified by 1	the of the	resulting nucleu
	(Mass number	10000	No. of neut	ron		/ Ator	nic no.	3252101/	None of these
23. 1	In a	only the	energy	level of the	nucleus c	hanges.				
((β - decay	/	α - decay		/	γ - decay)		
24. 1	In 1939	9, German Scie	entist Ot	to Hahn and	F.Strassn	nan disc	overed	 ;a		
((Nuclear fusion	1	/ Nuc	lear fissio	on)			
25. 1	In a	the ato	mic nui	mber and ma	ss numbe	r of the 1	radioactive n	ucleus re	main the same.	
((== 2)	β - decay	10000	α - decay		10088	γ - decay	1	All of these)
26.	Which	of the followi	ng is 'fi	ssile materia	l'?					
((Pu ²³⁹ /	Th ²³²	7	Pu ²⁴⁰	/	U^{238})			
27. U		trolled chain re						osion.		
((atom bomb		/ hydi	ogen bon	ıb	/ Both)		
28. 1	If the r	nass of the fiss								
((353)	super critical	10000	subcritical		1	critical) 08		
29. /	An ato	m bomb consis	sts of a p	piece of fissil	e materia	l whose	mass is			
((super critical	/	subcritical		/	critical)		
30.	The nu	clear bomb tha	it was d	ropped in Hi	roshima v	vas calle	d as	i Pa		
((Little boy	/	Fat man)					
31. I	Little I	Boy was a gun-	type bo	mb which us	ed a	core	_{rai.} org			
0 ((Thorium	1000	Plutonium		1	Th and U	100	Uranium)
32. \$	Sun fu	ses about	metr	ic tons of hy	drogen ea	ch secoi	nd.			
((620×10^8	/	6.2×10^8	/	62 × 10	0^{6} /	620)	
33. /	Alpha	rays emitted in	0202	_ radio activ	ity					
((Natural		/ Arti	ficial	/	Both /	None	of these)	
34. \$	Sun ra	diates about	k	kilo joule of	energy pe	r second	i.Or9			
000	(250)	3.8×10^{26}	1	3.8×10^{22}		/	3.8×10^{23}	100	3.8×10^{25}) Padas
35.	An iso	tope of	is use	ed in many in	ndustries a	as a smo	ke detector.			
((Am ²⁴¹ /		/			101.			

36.	A mod	lerator is used	N slow	down the high	energy i	neutrons	to provide s	low neuti	sc.com ons.	
	(Water	/	Graphite		/	Helium	/	Air)	
37.		reactors are	used to	convert nonfi	ssionable	e materia	als into fissio	nable ma	terials.	
	(Thermal	1000	Fusion	/	Fast Br	eeders	1000	Breeder)
38.	AEC i	s known as								
	(IGNOU	/	IGCAR	/	BARC		ICRP)09	
39.	Nuclea	ar power is the		largest sou	rce of po	wer in I	ndia.			
	(second	/	third	/	first	/ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	fifth)	
40.	1eV =	joule	•							
	(== 8	1.625×10^{18}	1000	1.602×10^{-19}	D	1-050	1.602×10^{19}	1 000	1.625×10^{-18})
41.		is the sour	ce of lig	ht and heat en	ergy in t	he Sun a	nd other star	·s.		
	(Nuclear fusio	n	100	Nuclea	ar fission				
42.	The pr	ocess of break	ing up o	f a heavier nu	cleus into	o two sm	naller nuclei i	is called	<u>1252/31.</u>	
	(Nuclear fusion	n	/ Nucle	ear fissio	n) \			
43.	The av	verage energy r	eleased	in each fission	n process	is about	t	Joule.		
	(== 2	3.84×10^{-12}	/	3.84×10^{-11}	/	3.2× 10) ⁻¹¹ /	3.2× 1	0^{-12})	
44.	The ag	ge of our Earth	is nearl	у у	years.					
	(4.45×10^9	/	4.54×10^9		/	5.45×10^{8}	/	5.54×10^9)
45.	. Duri <mark>n</mark> į	g a nucl <mark>ear</mark> fissi	on proc	ess, about		neutrons	are released			
	(2 to 3 /	4 to 5	/	4 to 6)			
46.		$_{1}H^{2}$ \longrightarrow _								
	(₁₃ Al ²⁷ /	$_{6}C^{12}$	350 00 /	₂ He ⁴	1	₂ H ⁴)			
47.	·	is also called 7	Thermor	nuclear reactio	n.					
	(Nuclear fusio	n	40	Nuclea	ar fission)			
48.	<u>16296</u>	Can b	e perfo	rmed at room t	temperat	ure.				
	(Nuclear fusion	n	/ Nucle	ear fissio	n)			
49.		is a devi	ce used	to detect the l	evels of	exposure	e to an ionizi	ng radiat	ion.	
	(Voltmeter	/	Ammeter		1	Dosimeter	/	None of these)
50.	·	was the first	nuclea	r reactor built	in India	and Asia	ı. _M N			
	(Apsara	/	Purnima	/	Cirus	/	Dhuru	va)	

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