	How many quarks are there in the standard mode	? -	
		2	The Up Quark is in the same generation as
Α.	six	[Charm
В.	four	B.	Тор
C.	twelve	C.	Down
D.	sixteen	n	C+nona
· ·	4	Th	e charge on a Bottom is
3 cl	he charge on the Charm (C) Quark is the same as the harge on		
A.	Strange	- A .	+2/3
В.	Тор	В.	-1/3
C .	Muon Neutrino	C.	-1
D.	Electron	D.	0
5		6 50	a UUD is commonly called a
]I t	f the three quarks UUD were to combine, what would be he total charge?		· · · · · · · · · · · · · · · · · · ·
A.	+1	_ A.	proton
В.	-1	В.	neutron
C.	0	C.	electron
D.	+4/3	D.	carryon

This review activity encompasses only a portion of what will be on your test. Remember to study the entire unit.

		•			2
			· ·	• *	*
				· · ·	
7		8	DDU is also known as a		
What charge would	the quark triplet	DDU have?			
			· · · · · · · · · · · · · · · · · · ·		
A +1		Α.	proton		
			•		· · · · · ·
B1		Β.	neutron		. .
			· ·		
C. 0		C.	electron		
				•	•
D4/3		D.	clingon		
		10 The elec	tron charge is		
Which generation of a	matter is most of (bur w	. ·		
of?		Δ +2/3			
A. Generation I		B1/3			
R Generation TT					•
D. Ceneration II		C 1			
C. Generation III		·,		• •	
		D. 0			
D. I got nothing here.	how should we kn	ow?			
11	:	12	Salam ano she anouli ak		
		الـــــا الـــــا	selow are the quark ch	arges, what is a Mu	on charge?
Below are quark charge	s, what is a neutring	A.	U.	B1	
A. •	B. ⁻¹	• •		(3) (3) charm top	
	(4) (3) charm top			400 X	
	- 3	·	A CONTRACTOR OF A CONTRACTOR A		· · ·
10			(1)		
(1) .down.	$\left(\frac{1}{3}\right)$ $\left(\frac{1}{3}\right)$		down	strange bottom	
	03- A		A.	Str Co	
đ			Q		· · ·
	· · ·				
		•			
· · · ·					
		• · · ·			
		,		•	
· .		,	· .		
	.				

÷		1	4		
13		 [Finish this:		
 T	he Charge on a Tay is		An electron	is to Up as a	Tau is to
ľ				,	
		A .	Strange	,	
Α.	+2/3				
в	-1/3	В.	Тор	• .	
	- 17 🗸	C	Naum	· .	•
C.	-1	C.	Down		•
D.	0	D.	Charm		
15	The electron is paired	d with a	neutrino.	Name that	. •
n	ieutrino.		•	•	
	AA		· · ·		
А.	Muon	."			
B	Tue		*		
υ.	100				
Ċ.,	Tau and Muon		•		,
		•	·		
D.	Electron Neutrino	ĸ	· · ·		
16 T	ake a shot, which of t	hese ler	otons is the	most rare?	
			× *	· · · · · ·	
				· · ·	
Α.	Ταυ				· · ·
В.	Muon	, . ,			
Ξ.	11.2011		4	· . ·	
C.	Electron	•	·		
D.	They are all equally r	rare			
•				. · ·	



•				
, .				
2	· · · · · · · · · · · · · · · · · · ·	•	· · · · · ·	
ا ہے۔۔۔۔ ما	o create/discover a I would requ	uire more or l	less energy	23
T	nan to create/discover an U?			In Generation III the Fermions are
Α.	much less			
, ' '				A. More massive than Generation II
В.	less			
				B. The most Massive of all three Generations
~ '	more			
	more			C. Different colors than the other Generations
-		·		
J.	MUCH MORE			D. More common than the other Generations
4		25		a sauth and an what all and a a
G) o out on a limb here, which quark was	the last to be	color is a	escribed on the chart as
f	bund?			
	· · · · · · · · · · · · · · · · · · ·		A	
4.	Тор	· · ·	A. weight	
		·	- ·	
3. [`]	Bottom		B. charge	
,				
C .1	Down		C. momer	itum
•		÷ •		
) .	Charm		D. energy	,
7		· · ·		
][N	/hat colors do quarks come in?	27		
	•	Think Color The	eoryred+gre	en+blue =
٦.	Cyan, red, green		· .	
	A	A. Black	· ·	
3,	red, blue, green			
١,		. white		
С.	green, yellow, cyan	. Brown	,	
);	cyan, magenta, yellow D). The US Flag		
• .		,		
4 >			•	
•				
		·		
		•		
	· ·			

· · · · · · · · · · · · · · · · · · ·	
28	29
We learned that three quarks m mewhat were those three quar	uke u In order for three quarks to exist in a stable vks? configuration, they must be what color?
A 1111D	
A. UUD	A. rea
B. DDU	B. green
C. DUD	C. blue
D. BUT	D. white
30. In color theory we learned that	cyan and red made
A. white	
B. Christmas colors	
C. brown	
D. black	
The complimentary colors; cyan, r one color to make white. In orde	nagenta, and yellow need .r., those colors are
A. red, green, blue	
B. green, blue, red	
C. red, blue, green,	
D. blue, red, green	

32 This suggests that matter can be stable (white charge) if a color and the anti-color combined! A. True False B. 33 This further suggests that there is an entire group of particles with the opposite charge and color. These particles are called...anti-matter! True A. False Β. 34 An anti-T has charge -2/3 and colors C,M,Y False True B. Α. To make a stable two quark object (called a Meson) you 36 could use a A green U and a cyan anti-U Α. Β. A magenta U and a green anti-U 35 C. A red U and a cyan anti-U Anti-U, Anti-D and D can make a stable particle A green U and a red anti-U D. False True Β. Α.

14.

Standard Atomic Review Answers

1. a 2. c 3. b 4. b 5. a 6. a 7. c 8. b 9. a 10. c 11. a 12. b 13. c 14. b 15. d 16. a 17. b 18. d 19. c 20. d 21. SKIP 22. d 23. b 24. a 25. b 26. b 27. a 28. a (make up a proton) 29. d 30. a 31. a 32. a 33. a 34. a 35. b

36. c

Other Topics to Cover -Models of the atom -Three types of radioactive decay -Fission and Fusion -E=mc^2 problems -Atomic Bomb Effects -Einstein Movie

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