Unit 2: Smiley Basics

Quizzes

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KENAN FELLOWS PROJECT

2010

Name:	Class:		Date:
PARIPod	2.1: Smiley Basics Quiz		
True/False Indicate whe	ther the sentence or statement is true or	alse.	
1.	The hand paddle is the best way to contr	ol smiley. It ha	as unlimited parameters.
2.	On the Skymap the sun is marked by a l	arge red circle.	
3.	The true control panel for smiley is the s	kymap.	
Multiple Clidentify the l	hoice etter of the choice that best completes the	statement or o	answers the question.
4.	Local Sidereal Time is a way for Astrona.direction of the milky way galaxylocation of the sun	c. time	
5.	The two coordinate systems that the targ a. lattitude/longitude, and Minutes/seconds b. Altitude/Azimuth and Right Ascention/Declination	c. North	h/South and East/West nuth/Lattitude and Left/Right

ID: A

Short Answer

- 6. On the Sky Map, how is smiley's current position located?
- 7. What are the three ways you can load the coordinates for a location on the Skymap?

PARIPod 2.1: Smiley Basics Quiz Answer Section

TRUE/FALSE

- 1. ANS: F
- 2. ANS: F
- 3. ANS: F

MULTIPLE CHOICE

- 4. ANS: D
- 5. ANS: B

SHORT ANSWER

6. ANS:

The white crosshair/plusmark

7. ANS:

Clicking on the target directly on the map, entering the coordinates manually, and selecting the target's name from the drop down menu.

Name:	Class:	Date:	ID: A
			

PARIpods 2.2 & 2.3 Quiz

Multi	nle	Cho	oice
IVILLE			

<i>Identify</i>	the let	ter of	the cho	ice that	t best	completes	the	statement	or (answers	the	auestion.

Identify	the i	letter of the choice that best completes the	: stateme	ent or answers the question.
	1.	The browser settings must enable		
		a. Java and pop-ups.	c.	pop-ups only.
		b. Java only.	d.	neither.
	2.	Which is the PARI website.		
		a. www.pari.com	c.	±
		b. www.pari.gov	d.	www.pari.net
	3.	Which link on PARI's website will take	you dire	
		a. telescopes and instruments.	c.	1 0
		b. teachers and students.	d.	for scientists.
	4.	Where will you enter once you log-in to	smiley '	?
		a. Smiley control room manager	c.	3
		b. Smiley help center	d.	Smiley waiting room
	5.	To only observe a Smiley session in prog	gress, cl	ick.
		a. start control session	c.	observe current session.
		b. SGRA main page.	d.	schedule control session.
	6.	Both the username and password are.		
		a. case sensitive.	c.	upper case only.
		b. lower case only	d.	doesn't matter.
	7.	Scheduling a control session uses which	time for	rmat?
		a. AM-PM time	c.	
		b. 24 hour time	d.	
	8.	What window pops up once you start a	control	session?
		a. Smiley internet telescope control	c.	
		b. mission control	d.	Smiley control central
	9.	There is a live feed of what in the top mid	ddle of t	· · · · · · · · · · · · · · · · · · ·
		a. the sky	c.	Smiley
		b. actual control room at PARI	d.	SGRA control central
	10.	The type of time Astonomers use to keep	o telesco	opes aligned.
		a. local	c.	1 . 1
		b. 24 hr.	d.	coordinate
	11.	The coordinate box displays the target a	ınd	coordinates?
		a. current cooridinate	c.	
		b. sky	d.	spectrum
	12	What is used for manual control of Smil		1
	12.	a. coordinate box	су. с.	hand paddle
		b. sky map	d.	keystrokes
	13	What is CCW?		<i>y</i>
	13.	a. clockwise	c.	coordinate clockwise
		b. counter clockwise	d.	central clockwise.
			٠.	

Name:				
	14.	One of the two corrdinate systems is		
		a. alzmuth and altitudeb. alzmuth and ascension		altitude and declination altitude and ascension
	15.	Both coordinate systems use degrees, minu a. hours	c.	latitude
	16.	b. daysWhat represents Smiley's current position of a. white crosshair	c.	yellow circle
	17.	b. white circleWhat indicates that Smiley is nearing its phya. manual control takes controlb. brake limits	/sica	sky map starts blinking
	18.	What is the first tab on the large box at the ba. weather b. mapping	ootto c. d.	•

ID: A

PARIpods 2.2 & 2.3 Quiz Answer Section

- 1. ANS: A
- 2. ANS: C
- 3. ANS: B
- 4. ANS: A
- 5. ANS: C
- 6. ANS: A
- 7. ANS: B
- 8. ANS: A
- 9. ANS: C
- 10. ANS: C
- 11. ANS: A
- 12. ANS: C
- 13. ANS: B
- 14. ANS: A
- 15. ANS: C
- 16. ANS: A
- 17. ANS: B
- 18. ANS: D

- <u>A</u> 14.
- <u>C</u> 15.
- __A___1. ____A___16.
- <u>C</u> 2. <u>B</u> 17.
- <u>B</u> 3. <u>D</u> 18.
- __A__ 4.
- __A__ 6.
- <u>B</u> 7.
- <u>A</u> 8.
- <u>C</u> 9.
- __A_ 11.
- <u>B</u> 13.

Name: _			Class:		Date:
PARIF	od	2.4: Scanning Basi	cs Quiz		
Multiple Identify			est completes the state	eme	nt or answers the question.
	1.	Spectrum Scan measure			function of a variable
		a. intensity over time			frequency over time
	•	b. intensity over frequ	•	d.	time over intensity
	2.	How many types of sca	•		4
		a. 2		C.	·
		b. 3		a.	5
	3.	Determines the rate at v	which Smiley collects of	data	
		a. IF Gain		c.	base frequency
		b. plot rate		d.	spectrum scan
	4.	How are graph features	accessed?		
		a. drop down menu.		c.	right click on graph.
		b. scan button.		d.	under file menu.
	5.	IF stands for?			
		a. intermediate freque	ency	c.	instant frequency
		b. inverse frequency	=	d.	immediate frequency
		•			•
Short A	nsw	/er			

ID: A

- 6. What are the types of scans available?
- 7. What does the IF gain measure?
- 8. What is the base frequency for Neutral Hydrogen?
- 9. What do each of the three types of scans measure?
- 10. How do you access and modify graphs?

PARIPod 2.4: Scanning Basics Quiz Answer Section

MULTIPLE CHOICE

- 1. ANS: B
- 2. ANS: C
- 3. ANS: B
- 4. ANS: C
- 5. ANS: A

SHORT ANSWER

6. ANS:

Spectrum, Continuum, and Mapping

7. ANS:

Amplitude or "volume"

8. ANS:

1.42 GHz

9. ANS:

Spectrum measures intensity of a frequency in a certain location. Continuum measures Intensity over time. Mapping maps out the frequency intensities over a wider target range.

10. ANS:

by right clicking the mouse

Name:	Class:	_ Date:	ID: A
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PARIPod 2.6: Continuum Scan Quiz

3 / 1/*		α	•
Multi	nla	(h	ALC:
MIUILI	DIC		UICC

Identify the letter of the choice that best completes the statement or answers the question.

 1.	What does a continuum scan compare?		
	a. intensity over time.	c.	frequency over time.
	b. intensity over frequency.	d.	frequency over wavelength
 2.	What doe the IF Gain do?		
	a. amplifies the signal.	c.	prevents IF loss.
	b. reduces noise.	d.	reduces inference.
 3.	What is IF Gain analogous to?		
	a. tuner.	c.	balance.
	b. volume.	d.	bass and Treble
4.	Which is the standard base frequency?		
	a. 4.8GHz.	c.	1.42GHz.
	b. 6.7GHz.	d.	8.4GHz.
5.	What is the length of time displayed on the	he x-ax	is for a continuum scan?
	a. 60 seconds.		100 seconds.
	b. 90 seconds.	d.	30 seconds.
6.	Which of the following has the lowest int	ensity	on a the continuum scale?
	a. 10	c.	-5
	b. 5	d.	0
7.	What happens when the scan reaches the	end of	the x-axis?
 	a. automatically stops.	c.	
	b. automatically starts a new scan.	d.	nothing.
8	The UT time displays?		2
 0.	a. UT time during the scan.	c.	current local time.
	b. current UT time.		UT time after the scan.
Q	Which axis(axes) differs between a spect		
 9.	a. y-axis.	c.	
	b. x-axis.	d.	-
10			
 10.	What should you do if there is little varia a. decrease the IF Gain.	nce m	increase the IF Gain.
		d.	
	b. change the time.	u.	change the intensity scale.

PARIPod 2.6: Continuum Scan Quiz Answer Section

- 1. ANS: A
- 2. ANS: A
- 3. ANS: B
- 4. ANS: C
- 5. ANS: C
- 6. ANS: D
- 7. ANS: C
- 8. ANS: A
- 9. ANS: B
- 10. ANS: C

Name:		Class:		Date:
2.7 Ma	pp	ing Scan Quiz		
True/Fa		ether the sentence or statement is true o	r false.	
	1.	A mapping scan is similar to a spectrum	m scan?	
	2.	AZ stands to Azimuth.		
	3.	Lowering the sampling rate decreases	accuracy o	luring a scan.
Multipl Identify	the i	hoice letter of the choice that best completes t What are the two new controls? a. azimuth and altitude		ent or answers the question. altitude and plot rate
		b. azimuth and plot rate	d.	-
	5.	During a mapping scan Smiley a. drifts b. tracks	c. d.	zig-zags stays in place
	6.	What will the scan automatically do what a. continue b. restart	c.	pletes the scanned range? stop reset
	7.	Once you begin your scan, how long of a. 0 seconds b. 20 seconds	c.	ve wait for data to appear? 2 minutes 5 minutes
	8.	The data plots appears asa. colored squares b. grayscale squares	c.	graph? grayscale dots colored dots

ID: A

2.7 Mapping Scan Quiz Answer Section

TRUE/FALSE

- 1. ANS: T
- 2. ANS: T
- 3. ANS: F

- 4. ANS: A
- 5. ANS: C
- 6. ANS: C
- 7. ANS: B
- 8. ANS: B

Name:		Class:		Date:	ID: A
2.8 A	naly	zing Smiley Data Quiz			
True/F Indicat		ther the sentence or statement is	s true or false.		
	1.	You must be in a control session	n to analyze you	smiley data.	
	2.	Plot format shows data points.			
	3.	When you save your data as a s	pectrum scan, yo	u can then go back an analyze	the mapping scan.
	4.	You cannot access graphing fea	ntures unless you	are logged into a current sessi	ion.
	5.	You can copy and paste data eit	ther from a curre	nt session or from outside a se	ession.
	6.	You can only access your data f	files for analysis.		
Multip <i>Identify</i>		hoice etter of the choice that best comp	pletes the stateme	ent or answers the question.	
	7.	Saved data is stored and organization	zed by.		
		a. passwordb. username	c. d.	student name smiley	
	8.	Which scan can you change to e		•	
		a. Spectrumb. Continuum	c. d.	Mapping Excel	
	9.	What can be accessed by right of	clicking in spectr		
		a. file nameb. graph features	c. d.	excel username	
	10.	This drop down menu allows th			
	10.	a. file type	c.	user selection	
		b. file selection	d.	user type	

2.8 Analyzing Smiley Data Quiz Answer Section

TRUE/FALSE

- 1. ANS: F
- 2. ANS: T
- 3. ANS: F
- 4. ANS: F
- 5. ANS: T
- 6. ANS: F

- 7. ANS: B
- 8. ANS: D
- 9. ANS: B
- 10. ANS: C