Na	Name:											
In	tro A	Astro	Lab	Pre	n Qu	iz: La	 ւb 11։ Ga	alaxie	S			
In (100 app wor	struc 0+10x) ropriate	ctions marks e circle c	The altogeth on the ta	re are ner. C	(10 + x) hoose to vided be) multipl he BES 7 elow. Rea	e-choice problematics answer, conditional responses and all responses and responses are specifically as a second control of the conditional responses are specifically as a second conditional response are specifically as a second conditional respective and conditional response are specifically as a second conditional response are specifically as a second conditional respective as	lems each npletion, s carefully	worth etc., a v. NOT	nd DA E long	RKEN detailed	I fully the dresponses
		Ans	swer	Tabl	le for	the I	Multiple-	Choic	e Qu	estic	ons	
		a	b	\mathbf{c}	d	e		a	b	c	d	e
	1.	О	О	O	О	О	11.	O	О	О	О	О
	2.	О	О	О	О	О	12.	O	О	О	O	О
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	6.	O	Ο	O	Ο	O	16.	O	О	O	O	O
	7.	O	O	O	О	O	17.	O	O	O	O	O
	8.	O	О	O	О	О	18.	O	O	O	O	O
	9.	О	Ο	Ο	Ο	O	19.	O	О	O	O	O
	10.	О	Ο	Ο	Ο	O	20.	O	Ο	O	O	O
1.	cycle c	of the Sci	entific F	in acti Revoluti	on. on l	o) a scient	than the Milk	c) ol	an be re			
	,	theory				,	scientific metho					
2.		play Je					s: The first p	erson in	the hist	orical r	ecord t	o note the
	W	ho is		, A	lex?							
	c)	Berosso Hypatia Christo	a (c.360	–415 Cl	E) d) Abd al-	ntury BCE) Rahman al-Su	,		100–с.1′	70 CE)	
3.							One of the eagalaxies."	arly and i	mpactfi	ıl propo	osers of	the theory
	W	ho is		, A	lex?							
	b) c)	philoso	natician pher Im	and pl manuel	nilosphe Kant (r Gottfrie 1724–1804	ed Leibniz (164 4) d) astro 1756–1791)	16–1716) nomer Ca	aroline I	Herschel	l (1750–	1848)
4.	which have n	have un early en	dergone ded and	multip l almost	le cycles all the	s of star fo stars are	: They are lar ormation, evol- now just aging continue for n	ution, and g. In othe	d death. r cases,	In som the cyc	les cont	the cycles the to the

a) planetary systems b) binaries c) globular clusters d) bulges e) galaxies

What are ______, Alex?

5.	5. "Let's play Jeopardy! For \$100, the answer is: This pioneer of extragalactic astronomy is the discoverer of Hubble's law as an observational result. The mathematical statement of the law includes as a factor the relative rate of the expansion of the universe at cosmic present. The said pioneer also devised the empirical galaxy morphological classification scheme that bears his name."											
	Who is, Alex?											
	 a) William Parsons, 3rd Earl of Rosse (1800–1867) b) Vesto Slipher (1875–1969) c) Edwin Hubble (1889–1953) d) Carl Seyfert (1911–1960) e) Allan Sandage (1926–2010) 											
6.	"Let's play <i>Jeopardy</i> ! For \$100, the answer is: This pioneer of extragalactic astronomy was the founding director of Dyer Observatory—Dyer, not Dire—in Nashville, Tennessee."											
	Who is, Alex?											
	 a) William Parsons, 3rd Earl of Rosse (1800–1867) b) Vesto Slipher (1875–1969) c) Edwin Hubble (1889–1953) d) Carl Seyfert (1911–1960) e) Allan Sandage (1926–2010) 											
7.	The sequence is an empirical galaxy classification scheme that nowadays has a theoretical understanding. Its eponym (the person after which it is named) concluded it was premature to interpret the sequence as an evolutionary sequence. We now know that it is not, in fact, an evolutionary sequence in a simple sense.											
	a) Rosse b) Slipher c) Hubble d) Seyfert e) Sandage											
8.	The two most common galaxy morphological classification schemes are conventionally illustrated with a $\underline{\hspace{1cm}}$ diagram.											
	a) tuning fork b) pitchfork c) Southfork d) South Park e) Gosford Park											
9.	The 6 main galaxy types are, lenticulars, spirals, intermediate spirals, barred spirals, and irregulars.											
	a) ellipticals b) perpendiculars c) spectaculars d) chroniculars e) consulars											
10.	. "Let's play <i>Jeopardy</i> ! For \$100, the answer is: These galaxies are spheroidal in shape, largely lack interstellar dust, and consist mainly of very old stars."											
	What are, Alex?											
	a) ellipticals b) lenticulars c) spirals d) barred spirals e) irregulars											
11.	Galaxies are often found in gravitationally bound systems called:											
	a) bunches. b) clusters. c) flocks. d) gaggles. e) prides.											
12.	"Let's play $Jeopardy!$ For \$100, the answer is: Rich ones typically have thousands of galaxies, poor one hundreds of galaxies."											
	What are, Alex?											
	a) galaxies b) galaxy clusters c) binaries d) Hubbles e) millionaires											
13.	The Virgo cluster is mostly in the constellation:											
	a) Alien b) Lyra c) Norma d) Scorpius e) Virgo											