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Name:											
Intro A	A stro	Lab	Pre	p Qu	iz: La	b 1: Co	nstella	ations	S		
Instructions: There are 10 multiple-choice problems each worth 10 marks for a total of 100 marks altogether. Choose the BEST answer, completion, etc., and DARKEN fully the appropriate circle on the table provided below. Read all responses carefully. NOTE long detailed responses won't depend on hidden keywords: keywords in such responses are bold-faced capitalized. This is a 10 minute quiz.											
	Ans	swer	Tab	le for	the I	Multiple	-Choi	ce Qı	ıestic	ons	
	a	b	c	d	e		a	b	\mathbf{c}	d	e
1.	O	Ο	O	O	O	11.	О О	Ο	О	Ο	O
2.	O	Ο	O	O	O	12.	О О	Ο	Ο	Ο	O
3.	O	O	O	O	O	13.	O	O	O	O	O
4.	O	O	O	O	O	14.	O	O	O	O	O
5.	O	O	O	O	O	15.	. O	Ο	O	O	O
6.	O	O	O	O	O	16.	. O	O	O	O	O
7.	O	O	O	O	O	17.	. O	Ο	O	O	O
8.	O	O	O	O	Ο	18.	. O	O	O	O	O
9.	O	O	O	O	O	19.	. O	O	O	O	O
10.	О	Ο	O	O	O	20.	O	O	О	О	O
1. Naked conste in this a e) SUGO Wron	-eye ast llations, context the mo ions GESTE	cons of Cons.	cal object. Jupiter	ects incl and, ur b) th	lude the nder dark ne Milky	,	5 non-Ea	nebulae aere	-	ing clou	dy objects
,	ven you				out tims	is not the be	ou amower.				

Redaction: Jeffery, 2013jan01

001 qmult 00200 1 4 2 easy deducto-memory: celestial sphere defined

2. "Let's play *Jeopardy*! For \$100, the answer is: It is an imaginary sphere centered on the Earth, set at infinity, and used to project all astronomical objects on for mapping."

What is the _____, Alex?

- a) celestial globe b) celestial sphere c) c
 -) 1 (1 C 1)
- c) celestial cube d) Boundless
- e) sphere of the fixed stars

SUGGESTED ANSWER: (b)

Wrong answers:

- d) This is Anaximander's (c. 610–c. 546 BCE) principle or substance for all things.
- e) This is the historical ancestor of the modern celestial sphere.

Redaction: Jeffery, 2013jan01

	What is the	, Alex?					
	a) ecliptic b)	zenith c) nadir	d) meringue	e e) merid	lian		
	SUGGESTED ANS	SWER: (e)					
	Wrong answers: a) As Lurch would s	say AAAARGH.					
	Redaction: Jeffery, 2	2013jan01					
	qmult 00400 1 4 4 easy "Let's play Jeopardy! calculating the local si	For \$100, the an	swer is: It is a	a primitive se		mputer used for	
	What is a	, Alex?					
	a) telescope b	o) cellphone c) s	ky map d) j	planisphere	e) celestial glob	oe	
	SUGGESTED ANS	SWER: (d)					
	Wrong answers: b) Nowadays this wic) This is not a com				is not analog.		
	Redaction: Jeffery, 2	2013jan01					
	qmult 00510 1 1 1 easy The brightest stars in These stars are called:	the sky often have		es mostly der	rived either from l	Latin or Arabic.	
	a) named stars.e) death stars.	right b) un	named stars.	c) unnamea	able stars	d) dim stars.	
	SUGGESTED ANS	SWER: (a)					
	Wrong answers: e) Oh, c'mon.						
	Redaction: Jeffery, 2	2013jan01					
	qmult 00520 1 1 5 easy Which of the following	•	-		ckwards?		
	a) Aldebaran	b) Algol c) And	kaa d) Anta	res e) Na	vi		
	SUGGESTED ANSWER: (e) Astronaut Gus Grissom gave the star Gamma Cassiopeiae another name, his own middle name Ivan spelled backwards.						
	Wrong answers: b) Logla?						
	Redaction: Jeffery, 2	2013jan01					
	qmult 00540 1 1 1 easy In the Bayer designation in a constellation is U	on scheme for bright	t stars in conste		tar of highest app	arent brightness	
	a) alpha (α) .	b) beta (β) . c)	gamma (γ) .	d) delta (δ) .	e) epsilon (ϵ)		
	SUGGESTED ANS	SWER: (a)					

Wrong answers:

b) C'mon.

Redaction: Jeffery, 2013jan01

001 qmult 00550 1 1 4 easy memory: Bayer designation 2nd brightest star in Taurus

- 8. What is the Bayer designation for the 2nd brightest star (by tradition if not always in fact) in the constellation Taurus?
 - a) α Orionis. b) β Orionis. c) α Tauri. d) β Tauri. e) γ Tauri.

SUGGESTED ANSWER: (d)

Also called Elnath.

One has to insert the "by tradition" in the question since the Bayer designations sometimes do not correspond to the actual brightness order. Bayer or his acolytes sometimes got the brightness order wrong—they goofed—understandable in the pre-modern era.

Wrong answers:

- a) Why would it be in Orion?
- c) Would the 2nd brightest star be an alpha?

Redaction: Jeffery, 2013jan01

001 qmult 00600 1 4 4 easy deducto-memory: constellation defined

9. "Let's play Jeopardy! For \$100, the answer is: This astronomical object is traditionally defined as a traditionally recognized group of stars that are relatively close in angle on the sky. In three-dimensional space, the stars can be very far apart and they are usually not physically interacting with each other. In modern astronomy, the object is defined as a patch on the sky. There are only 88 of such modern objects each containing their traditional analogue. The 88 patches tile the whole sky without overlap. Thus, any other astronomical object can be located in a patch."

What is a _____, Alex?

- a) galaxy b) planetary system c) nebula d) constellation e) planisphere
- SUGGESTED ANSWER: (d)

Wrong answers:

a) As Lurch would say AAAARGH.

Redaction: Jeffery, 2013jan01

001 qmult 00610 1 1 4 easy memory: constellation appearance

- 10. Overwhelmingly most constellations look ______ like the things they are named for.
 - a) exactly b) nearly exactly c) 70% d) nothing much e) exactly inversely

SUGGESTED ANSWER: (d)

The suggested answer is a strong statement, but it is closer to the truth than any of the others. Usually the object a constellation is named for can be mapped onto the constellation with stars located at critical points. But the mapping is highly non-unique. If a person saw a set of constellation stars, they could plausibly map almost anything they like onto to it.

There are a few constellations which look like the thing they are named for, but still not uniquely so. For example, the Big Dipper does look like a dipper. But it is has also been called the Wain (i.e. wagon) and the Plough, and it is part of Ursa Major (the Big Bear).

Wrong answers:

e) A nonsense answer.

Redaction: Jeffery, 2013jan01

- 001 qmult 00630 1 1 3 easy memory: three northern sky constellations
- 11. Three contellations relatively near the north celestial pole (the NCP) are:
 - a) Mars, Jupiter, Pluto. b) Ursa Major, Ursa Minor, the Southern Cross.
 - c) Ursa Major, Ursa Minor, Cassiopeia. d) Ursa Major, Ursa Minor, the Northern Cross.
 - e) Frankenstein, Dracula, the Mummy.

SUGGESTED ANSWER: (c)

Wrong answers:

a) Oh, c'mon.

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001 q
mult 00750 1 1 1 easy memory: your sign is Aries

- 12. Say the Sun was in the sign of Aries (which is approximately where the constellation Aries was in 500 BCE) when you were born. Your astrological sign is:
 - a) Aries. b) Scorpio.
- c) Canis Major.
- d) Democritus.
- e) Taurus.

SUGGESTED ANSWER: (a)

Wrong answers:

- c) Not a zodiac constellation.
- d) He ought to have a constellation. I think we could boot out Ophiuchus. Only very rare people would be Democrituses.

Redaction: Jeffery, 2013jan01