

PROGRAMA DE PÓS-GRADUAÇÃO EM ESTATÍSTICA

PROVA DE INGLÊS – PROCESSO DE SELEÇÃO 2009

1- Which alternative goes beyond to what is said in the text:

- a) Gänsicke's group of astronomers find themselves trapped and worried about the coming interstellar explosions.
- b) The astronomers think that it's difficult to explain the so bright radiation due to the relatively low temperature of a dying star.
- c) The new generation of telescopes will survey more or less the whole visible sky every few nights, keeping a constant watch for anything that changes from one sweep to the next.
- d) Astronomers can't estimate how many events like or unlike the SCP 06F6 will be found in such surveys done by the LSST Telescope.

2 - "Supernovae", in this text, is, considered as:

- a) Unexpected mysterious black holes swallowing dying stars.
- b) Explosions of carbon stars around 2 billion light years away.
- c) Dying stars giving off mighty flashes of light when exploding.
- d) The strength of energy when the universe expands at an ever-accelerating rate.

3 – In line 6, "a mighty flash of light" has the following meanings:

- a) dimmed, brilliant.
- b) shining, dull
- c) extreme, gloomy
- d) powerful, massive

4 – According to the text, we can't say that:

- a) SCP 06F6 brightened and dimmed away for around 100 days.
- b) The Universe has been expanding at an ever-accelerating rate.
- c) Astronomers were looking for supernovae when discovered SCP 06F6.
- d) There's nothing similar recorded before or since SCP 06F6.

5 – The meaning of "give off", in line 6, is:

- a) emit, send out
- b) exhale, extend
- c) diminish, put out
- d) reveal, carry out

6 – All those alternatives below aren't correct, except:

- a) The LSST Telescope detected an unprecedented celestial event.
- b) Being compared to a star-death as a standard, the molecular lines of the mysterious object have a relatively low temperature.
- c) Supernovae in distant galaxies have no use to estimate the strength of dark energy.
- d) The radiation of that event was emitted after a crash between stars.

7 – In line 35, “on the verge of” has the following meaning:

- a) afraid of a revolution
- b) waiting for a revolution
- c) very close to a revolution
- d) not reaching a revolution

8 – In the text, “transient events” means:

- a) Events which are still unknown and mysterious.
- b) Events which aren't understood and expected.
- c) Events which transit from one position to another.
- d) Events which last for a short time only.

9 - “The star was ripped apart by a black hole” (line 18) can be understood as:

- a) The star was attracted to the black hole by a transient force.
- b) The star moved smoothly and steadily to the black hole.
- c) The star was pulled into parts, quickly and with force, to the black hole.
- d) The star was detached from something into the black hole.

10 – The event can be considered as “a first-class puzzle” because of its opposing ideas, except for:

- a) It might be a supernova-like event in which a star flared greatly, but failed to explode.
- b) The burst of light might be the explosions of a carbon star, but of low temperature.
- c) It could be a mysterious burst of light which grew in brightness, but dimmed away over the next three months.
- d) It needs more data from similar events.

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SELEÇÃO MESTRADO E DOUTORADO ESTATÍSTICA/UFMG - 2009**

PROVA DE INGLÊS -2009

Questão	1	2	3	4	5	6	7	8	9	10
A										
B										
C										
D										

Nome:

Assinatura:

Carteira de identidade / passaporte