

**ATENÇÃO:** Verifique se esta é a sua opção de Língua Estrangeira.

## LÍNGUA INGLESA

**INSTRUÇÃO:** Responder às questões 46 a 52 de acordo com o texto 1.

### TEXTO 1

#### 1,000 Mira stars

01 The first detailed study of variable stars in a galaxy  
02 outside our Local Group has turned up more than  
03 1,000 luminous red variables in Centaurus A, a giant  
04 elliptical galaxy 13 million light-years away. The  
05 variable stars are mostly "Mira type", which means  
06 they vary by more than 2.5 magnitudes over periods  
07 that range between 100 and 1,000 days.

08 Mira was the first long-period variable discovered  
09 and experiences a 1,500-fold change in brightness  
10 over a period of 11 months. Mira is a red giant; nearly  
11 all red giants are variable stars. The pulsations in a  
12 red giant's luminosity are caused by dramatic  
13 fluctuations in the star's temperature and size due to  
14 its end-of-life phase.

15 Detecting the variable stars confirms the  
16 existence of intermediate-age stars in the halo of  
17 Centaurus A. This provides a window on the stellar  
18 contents of giant elliptical galaxies and helps scientists  
19 understand how these galaxies form. The relationship  
20 between the luminosity and the period in the variable  
21 stars' fluctuations also confirms previous distance  
22 estimates of Centaurus A.

(by Kelly K. Whitt, *Astronomy*, October, 2003. p.28)

**46)** The expression *to turn up* as in "has turned up" (line 02) means the same as

- A) to create.
- B) to arrive.
- C) to increase.
- D) to discover.
- E) to appear.

**47)** Centaurus A (line 03) is defined according to

- A) size, shape and distance.
- B) function, origin and distance.
- C) color, shape and size.
- D) shape, function and distance.
- E) color, origin and size.

**48)** A palavra "brightness" (linha 09) pode ser substituída, sem alteração de sentido contextual, por

- A) liveliness.
- B) richness.
- C) luminousness.
- D) sharpness.
- E) smartness.

**49)** The term *fold*, as in "1,500-fold change" (line 09), indicates

- A) combination.
- B) addition.
- C) multiplication.
- D) coordination.
- E) subdivision.

**50)** A voz ativa correspondente a "The pulsations in a red giant's luminosity are caused by dramatic fluctuations in the star's temperature" (linhas 11-13) é

- A) Dramatic fluctuations in the star's temperature caused the pulsations in a red giant's luminosity.
- B) The star's temperature cause the dramatic fluctuations in a red giant's luminosity.
- C) The red giant's luminosity and the star's temperature caused the dramatic fluctuations on the stars.
- D) Dramatic fluctuations in the star's temperature cause the pulsations in a red giant's luminosity.
- E) The star's temperature have caused dramatic fluctuations in a red giant's luminosity.

**51)** According to the text, the study of variable Mira-type stars opens a new window for understanding the \_\_\_\_\_ of giant elliptical galaxies.

- A) observation
- B) evolution
- C) luminosity
- D) fluctuation
- E) magnitude

52) The question that **CANNOT** be answered with the information in the text is

- A) Who has led this research project?
- B) What are the Mira-type stars?
- C) How many red variable stars have been discovered in Centaurus A?
- D) Where is the newly discovered galaxy located?
- E) What causes the stellar pulsations?

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**INSTRUÇÃO: Responder às questões 53 a 60 de acordo com o texto 2.**

**TEXTO 2**

**Dame Yankee – the screen legend  
Katharine Hepburn**

01 *Kate Remembered* – appeared with suitable  
02 briskness, less than two weeks after the June 29 death  
03 of Katharine Hepburn at age 96. Her own departure  
04 was one stipulation Hepburn placed on A. Scott Berg  
05 before the esteemed biographer of Max Perkins,  
06 Samuel Goldwyn and Charles Lindbergh could tell her  
07 stories. And as it happened, that gave Berg twenty  
08 years of friendship with the great actress to prepare  
09 this unusual and unusually fitting “account”, as he  
10 describes it, of a life lived outside the usual in virtually  
11 all things.

12 Hepburn herself referred to Berg as her  
13 biographer, but *Kate Remembered* is a very  
14 unorthodox biography: “Remembered” is the key  
15 word, since his touching, encoded tribute is as much  
16 about what it meant to be a devoted friend as it is  
17 about the object of devotion. And, indeed,  
18 *Remembered* begins dubiously – and somewhat  
19 crustily – with a story about how Berg met Hepburn.  
20 Writing a magazine article about the star, the writer  
21 shows up at her Manhattan door and is immediately  
22 commanded to use the bathroom by the hostess,  
23 certain she knew a guest’s bladder better than the  
24 owner did.

25 An understanding of one another quickly follows.  
26 And so, gradually, does a sense not only of what  
27 Hepburn did, and with whom, but perhaps the closest  
28 we can come to feeling what it was like to live  
29 Hepburn’s life as she did in a pattern of attachments  
30 and detachments.

(by Lisa Schwarzbaum, *Entertainment Weekly*,  
July 25, 2003. p.74)

53) The statement which is TRUE according to the text is:

- A) The writer of the 2003 article was a friend of Hepburn’s.
- B) Berg is the biographer of both Hepburn’s and Schwartzbaum’s.
- C) This magazine article was published shortly before the actress’s death.
- D) The magazine this article was published in is probably about movies and plays too.
- E) This article deals with relationships among people in the arts and literature.

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54) Através da expressão “with suitable briskness” (linhas 01 e 02), sabemos que a publicação do livro

- A) foi feita logo que possível.
- B) tinha que levar algum tempo.
- C) era esperada por todos.
- D) poderia ter sido feita antes.
- E) não era condizente com a idade da atriz.

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55) A synonym for the word “departure”, as it is used in line 03, is

- A) take-off.
- B) separation.
- C) leavetaking.
- D) death.
- E) withdrawal.

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56) Conforme empregado nesse texto, o termo “account” (linha 09) se enquadra na seguinte definição de dicionário:

- A) an arrangement in which your bank looks after your money.
- B) an arrangement you have for services provided.
- C) a report about something that happened.
- D) to be the reason why something happens.
- E) to form, use or produce a particular amount of something.

57) According to the first paragraph (lines 01 to 11), it is **INCORRECT** to say that

- A) the actress had agreed to have a book made about her under one condition.
- B) Hepburn was eager to see how the readers would react to this book about her.
- C) Berg would have failed in his agreement, had he published the book before her death.
- D) the biographer wrote about a few famous people that he was fond of.
- E) most things Hepburn did were different from what people normally do.

58) According to the second paragraph (lines 12 to 24),

- A) it is clear that Katharine Hepburn was an understanding and docile kind of person.
- B) this book was the only chance Berg had to write about Hepburn.
- C) the book reveals as much about a friendship as it does about one single person.
- D) Hepburn was living in Manhattan when Berg talked her into writing *Kate Remembered*.
- E) the actress required perfect hygienic procedures in her home.

59) A partir da leitura da primeira sentença do terceiro parágrafo (linha 25)

- A) conclui-se que autor e atriz logo se entrosaram.
- B) sabe-se que se seguiu uma entrevista rápida.
- C) compreende-se a entrevista seguinte.
- D) conclui-se que Berg não entendeu a atriz de imediato.
- E) pode-se compreender o autor e a atriz.

60) Todos os pares de palavras abaixo apresentam a mesma relação, **EXCETO**

- A) partial – impartial.
- B) attachment – detachment.
- C) orthodox – unorthodox.
- D) code – encode.
- E) literate – illiterate.

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