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全国 2006 年 4 月高等教育自学考试  
**英语科技文选试题**  
课程代码：00836

**PART A: VOCABULARY**

**I. Directions: Add the affix to each word according to the given Chinese, making changes when necessary. (10%)**

- |                  |        |          |
|------------------|--------|----------|
| 1. compressed    | 超高度压缩的 | 1. _____ |
| 2. variant       | 不变量    | 2. _____ |
| 3. reversibility | 不可逆转性  | 3. _____ |
| 4. division      | 细分     | 4. _____ |
| 5. mental        | 心智     | 5. _____ |
| 6. runner        | 预兆     | 6. _____ |
| 7. lie           | 位于……之下 | 7. _____ |
| 8. different     | 划分；区分  | 8. _____ |

9. connect      使分开      9. \_\_\_\_\_
10. active      互相作用的      10. \_\_\_\_\_

**II. Directions: Fill in the blanks, each using one of the given words or phrases below in its proper form.(10%)**

reminiscent of      press on      focus on      for the sake of      in contrast  
in relation to      lose sight of      come to light      in memory of      line with

11. \_\_\_\_\_ must not \_\_\_\_\_ the possibilities of using waste products.
12. That song is so \_\_\_\_\_ my adolescence.
13. By \_\_\_\_\_ the furnace \_\_\_\_\_ firebricks, heat losses can be reduced.
14. The image to be photographed \_\_\_\_\_ the film by the lens.
15. The evaporative capacity is large \_\_\_\_\_ the size of the boiler.
16. The first evidence for the existence of new particles \_\_\_\_\_ in the 1950s.
17. \_\_\_\_\_ clarity, the illustration shows only a few turns of wire.
18. Mankind \_\_\_\_\_ ever harder \_\_\_\_\_ the limited fresh-water supplies of the planet.
19. \_\_\_\_\_ conductors, there are very few free electrons in an insulator.
20. A service was held \_\_\_\_\_ those who had died from AIDS.

**III. Directions: Fill in each blank with a suitable word given below. (10%)**

most      always      often      little      as      almost      that      especially      still      routine

The need for a surgical operation, 21 an emergency operation, almost 22 comes as a severe shock to the patient and his family. Despite modern advances, 23 people still have an irrational fear of hospitals and anaesthetics. Patients do not 24 believe they really need surgery — cutting into a part of the body 25 opposed to treatment with drugs. In the early years of this century there was 26 specialization in surgery. The scope of surgery has increased remarkably in this century. Many developments in modern surgery are 27 incredible. One of the most revolutionary areas of modern surgery is 28 of

organ transplants. "Spare parts" surgery, the simple \_\_\_\_\_ 29 \_\_\_\_\_ replacement of all worn-out organs by new ones, is \_\_\_\_\_ 30 \_\_\_\_\_ a dream of the distant future.

21. \_\_\_\_\_ 22. \_\_\_\_\_ 23. \_\_\_\_\_ 24. \_\_\_\_\_ 25. \_\_\_\_\_

26. \_\_\_\_\_ 27. \_\_\_\_\_ 28. \_\_\_\_\_ 29. \_\_\_\_\_ 30. \_\_\_\_\_

## PART B: TRANSLATION

**IV. Directions: Translate the following sentences into English, each using one of the given words or phrases below. (10%)**

untangle      on the edge of      given      argue over      access to

31. 设计工程师应有机会了解成本数据。
32. 孩子们为看哪个电视节目而争论不休。
33. 解开缠绕的电线花了他很长的时间。
34. 假如度量仪出了故障，实验肯定要失败。
35. 你快成功了，努力达到你的目标吧。

**V. Directions: Translate the following paragraphs into Chinese. (15%)**

36. ... The final task tested understanding: the subjects had to decide, for example, whether the words senator and congressman belong in the same category.

Men and woman showed a difference in brain use only on the rhyming task. In both sexes, trying to recognize rhymes led to increased blood flow in the inferior frontal gyrus of the left hemisphere—Broca's area, as it's commonly called—which has long been linked to language ability. In men that was the only active region, whereas 11 of the 19 women also showed activation in the corresponding region in the right hemisphere. The women's brains weren't working any harder overall; the work was just spread out more. "The accuracy was very comparable," Sally Shaywitz says. "It may be that there are just different routes in the brain to get to the same results."

## PART C: READING COMPREHENSION

**VI. Directions: Read through the following passages. Choose the best answer and put the letter in the bracket. (20%)**

(A)

3 页，当前页是第 3 页-

The farm is a major marketplace for millions of tons of synthetic fertilizers and pesticides, and for advanced machinery and the fuel required to run it. The modern superfarm, large and highly capitalized, is resource dependent compared with the diversified small farms that were once dominant. On diversified farms, major energy needs may be supplied by resident humans and

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38. The use of fertilizers and pesticides was once very profitable due to the fact that \_\_\_\_\_. 【    】
- A. there was an increasing demand for agricultural products in the U.S.
  - B. fossil energy was not costly
  - C. farmers could use inexpensive energy
  - D. mainstream American agriculture paid no attention to saving energy
39. It can be concluded from the passage that \_\_\_\_\_. 【    】
- A. more energy and fertilizer will be wasted on large farms
  - B. diversified farmers will disappear from the world
  - C. capital and land will be put into greater use
  - D. more advanced machinery will be applied in agricultural production
40. Which of the following statements is TRUE according to the passage? 【    】
- A. The development of large farms was helped by management skills.
  - B. It is possible for adaptive farms to employ resource-conserving practices





1.4 solar masses and so cannot form a white dwarf. Instead, as the star collapses, its electrons and protons smash together to form neutrons, and a neutron star is born.

As with white dwarfs, there is a limit to how much mass a neutron star can have. If the collapsing star exceeds two or three solar masses, the star's gravity overwhelms the support the neutrons provide. In a fraction of a second, the star shrinks. As the star gets smaller, its surface gravity gets stronger and the escape velocity climbs higher until it exceeds the speed of light. The star has now become a black hole.

**Existence of Stars**

Stars	How to Prevent Collapsing	What Stars to Emerge after the Collapse	Limit to the Mass of New Stars
below 8 solar masses	47. A balance is kept between____ _____	48.	49.

## PART D: WRITING

### VIII. Passage-writing(15%)

52. Directions: Write a passage (150-200 words) in English on the title "Should the Use of New Construction Materials Be Restricted?". Develop the ideas according to the Chinese outline given below.

- (1) 新型建筑材料的使用使建筑物更美观、更富时代感。
- (2) 各种新型建筑材料的使用带来一些问题：辐射、光污染、不利于消防等。
- (3) 新型建筑材料的使用是否应该受到限制？（请说明理由）

