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1 选择题

1. One of these things is not like the others; one of these things is not the same. Which one is different?

A. John B. Paul C. George D. Ringo **E. Socrates**

1. _____

2. One of these things is not like the others; one of these things is not the same. Which one is different?

A. John
B. Paul
C. George
D. Ringo
E. Socrates

2. _____

3. Who was the fifth Beatle?

3. Murray the K

4. One of these things is not like the others; one of these things is not the same. Which one is different?

☐ John
☐ Paul
☐ George
☐ Ringo
■ Socrates

5. One of these things is not like the others; one of these things is not the same. Which one is different?

☐ John ☐ Paul ☐ George ☐ Ringo **■ Socrates**

2 填空题

1. (5 分) Black is the color of my true love's hair.

2. (5 分) The magic word is prestidigitator.

3. T The world is all that is the case.

4. F My favorite color is blue.

3 简答题

1. (10 分) Why is there air?

2. What if there were no air?

(a) (5 分) Describe the effect on the balloon industry.

(b) (5 分 (附加)) Describe the effect on the aircraft industry.

3. (20 分) About universe.

(a) i. Define the universe.

ii. Give three examples.

(b) If the universe were to end, how would you know?

4. Did you mutter something?

答案:

Once upon a midnight dreary, while I pondered, weak and weary, Over many a quaint and curious volume of forgotten lore—While I nodded, nearly napping, suddenly there came a tapping, As of some one gently rapping, rapping at my chamber door. “This some visitor,” I muttered, “tapping at my chamber door—Only this and nothing more.”

1. Approximate $\int_0^1 \sin x^2 dx$ within .001 of its true value.

Questions 2 through 4 should be evaluated completely, not just approximated.

2. $\int_0^1 \frac{x^2 dx}{\sqrt{1-x^2}}$
3. $\int_0^1 \frac{1}{1+x^2} dx$
4. $\int_0^{\frac{\pi}{2}} \sin^3 x \cos x dx$