

# OAT (Osric Aptitude Test)

This test is for screening purposes only. This test was designed for the sole purpose of determining which Osric University applicants are best suited for a course of study at Osric University and its unique learning environment. The results of this test should not be used for any other purpose, ever. No conclusions should be drawn from the results of this test other than whether or not an individual candidate would excel in a course of study at Osric University.

This is not a timed test. Osric University understands that an important aspect of scholarship is research; as such, the ability to find answers and information which you do not already know is crucial to your ability to succeed at Osric University. Feel free to consult any book, website, video, interactive CD-ROM, television documentary, information radio programme, televised infommercial, audio cassette, or even a live human being in completing the answers to this test. Your score will be grades based solely upon the number of correct answers.

Please read each question carefully before starting your work.

Once you have completed the exam, staple all pages and send to: Osric University, PO Box 4501, Ann Arbor, MI 48106-4501. Be sure to include a self-addressed stamped envelope.

**NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**PHONE:** \_\_\_\_\_

**SOCIAL SECURITY NUMBER:** \_\_\_\_\_

Take your time, and remember, you can take this test as many times as you like. Relax, and focus on finding the correct answer to each question.

## SECTION ONE: Mathematics (Seven Questions)

1. Solve this equation (for  $y=0$ , find  $x$ ). Show your work.

$$y = 2x^2 - 4$$

2. Which of the following numbers are *greater* than the square root of three?

2

Square root of two

1.8

pi

3. Describe briefly, in your own words, the essence of calculus:

4. What is the difference between an equilateral, an isosceles, and a right triangle?

5. If a 100# man can drink a 12 oz. can of Schlitz/hour while maintaining a legal blood-alcohol content in the state of Michigan (.07), and a 200# man can drink two 12 oz. cans, what is the maximum number of cans of Schlitz a 175# man can drink in one twenty-four hour period without his blood-alcohol content rising above .07? **Bonus:** would you want this man to drive your car after this twenty-four hour period? What if you were in Ohio?

6. What are the odds that a person would roll a total of seven if that person rolled two six-sided dice?

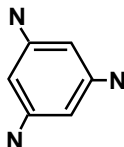
7. What is the cosine of pi radians?

## **SECTION TWO: History and World Culture (Seven Questions)**

1. Who assassinated Abraham Lincoln?
2. Who made an assassination attempt on Ronald Reagan, and what did the attempt have to do with the movie *Taxi Driver*?
3. Describe briefly, in your own words, Chiang Kai-shek's role in world history.
4. Describe briefly, in your own words, the historical significance of the Order of the Knights Templar. **Bonus:** who, or what, is Baphomet?
5. Granada, Spain, was the last Moorish stronghold in Europe. Which Spanish monarchs drove the Moors from Europe, and in what year?
6. Who is credited with creating the first set of written, codified laws?
7. What is Albania's main export?

## SECTION THREE: Science (Seven Questions)

1. Someone shows you a diagram like this:  
What might you call it? And what does the diagram have to do with an esteemed international award for scholars?



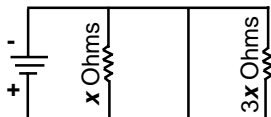
2. Describe briefly, in your own words, the Krebs Cycle.

3. If you were in a complete vacuum and your dropped a feather and a rock (the mass of the rock is approximately 3000 times greater than the mass of the feather) at precisely the same time, from a height of two meters, what would happen? (Assume gravity is  $-9.8 \text{ m/s}^2$ .)

4. Name the traditional colors of the visible light spectrum, from lowest frequency to highest.


5. What does the acronym LASER stand for?

6. What's wrong with this diagram? (There may be more than one correct answer.)



7. How can you separate salt from seawater in order to obtain drinkable water? **Bonus:** have you ever tried?

## SECTION FOUR: Literature and Art (Eight Questions)

1. What is the name of the Russian-derived slang language that is common amongst teenagers in *A Clockwork Orange*? What is the author's name? Bonus: How many chapters were in the first American edition and why might this piece of information be important to someone reading the novel?
2. How many times have you seen *Star Wars*? Please include only the number of times you have seen the *Star Wars* movie subtitles "Episode IV: A New Hope".
3. Who created the word Jabberwocky and why is it sometimes written from right to left, with each individual letter transposed across a horizontal axis?
4. Write a phonetic pronunciation of  . There is more than one correct answer.
5. Who wrote the *Canterbury Tales*? Why didn't the author finish the work?
6. In what city did Franz Kafka live, write, and die?
7. What is your favorite color?
8. What is the average airspeed velocity of an unladen swallow?

## **SECTION FIVE: Logic and Reasoning (Seven Questions)**

1. If Janice drive faster than Michael, and Michael drives slower than Pedro, and Anne drives faster than Pedro then answer the following:

Anne is driving 70 m.p.h., the posted speed limit on a four-lane limited  
-access divided highway. Which lane should each driver be in?

2. Describe, in your own words, the difference between correlation and causation.

3. If you asked ten Americans what shoe size they wore, and five of them said size eight, what assumptions could you reasonably make about the population of the United States (approximately 275 million people)? And why?

4. If you ask someone to tell you a lie, and they respond by saying, "I can't," would you be satisfied by their honesty?

5. Do you consider yourself a gullible person?

6. Give the reasons why someone, logically, might want to spend one dollar on a lottery ticket. By the same token, give the reasons why someone, logically, might not want to spend one dollar on a lottery ticket.

7. "All dogs bark. Dogs are pets. Cats are pets. Therefore, cats bark." What is the flaw in this logic?

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# You have now finished the OAT.

Before sending this test to Osric University, be sure that you have completely answered every question to the best of your ability.

Please staple all pages together.

Don't forget to include your name, address, phone number, and social security number (for U.S. applicants only).

Please include a self-addressed stamped envelope to insure timely delivery of the results of your test.