



Practice Exam for the  
**TestAS**

*Mathematics,  
Computer Science and  
Natural Sciences Module*

— SECOND EDITION —

2017

This ebook contains a full-length practice test including all sections of the TestAS with solutions.

- ✓ Core Test (with 4 subtests)
- ✓ Mathematics, Computer Science and Natural Sciences Module (with 2 subtests)



**BAUSCHMID**

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# FOREWORD

The surest way to a fulfilling and exciting career is to begin your journey with an equally fulfilling and exciting but rigorous education. I began my studies in business at the Ludwig-Maximilians Universität in Munich and the Universität Augsburg and complemented this experience with internships. By combining strong academics with rich professional experiences, I was able to realize my dream of working in the United States and gaining a global perspective on the world economy.

Now with our Munich-based company [edulink](#), we provide college admission counselling over the internet to young men and women who are looking for exceptional educational experiences in Germany. Let's face it. Navigating the university application process can be complicated, especially for students who are not familiar with German universities. Our company makes this process easier for you by providing you with professional advice and strategies for preparing a successful university application.

Due to the highly competitive nature of German-language universities, one of the stumbling blocks for many students is the TestAS exam, an aptitude test for university applicants from non-European countries. The TestAS is one of the criteria used to determine a student's readiness for university level courses in Germany. We created the preparation books to help students take these exams with confidence.

Our goal in writing these books was to give you a complete overview of and a feel for the TestAS exam. These study guides were developed after detailed research with a team who has taken the exams. We have also interviewed dozens of prior test takers to identify the areas where students need the most help. We hope that our preparation books will help you approach the TestAS exam with confidence.

An advanced degree from a German university will pave the way for new opportunities and exciting career paths. I sincerely hope that our test preparation books will help many eager students find fulfilling educational opportunities in Germany.

All the best,

Peter

**Peter Bauschmid**

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# 1 INTRODUCTION

## 1.1 BENEFITS FROM THE PRACTICE TEST

Dear reader,

A good understanding of the exam situation, including the questions and the exam conditions, will help you understand your weak spots. You will be able to check your current state of knowledge and to familiarize yourself with the testing situation. This will allow you to fine-tune your preparation strategy.

The Practice Test gives you the opportunity to pass the exam in real conditions. You will gain insights into the testing process, familiarize yourself with the question types and get a good impression of what will be expected of you. You will experience how difficult it can be to maintain your concentration and how much time you will have for each question. You will identify your strengths and weaknesses and get to know where you can improve your knowledge.

We recommend you to take the exam **in one session** so you experience how you react to this long, tiring exam. And please plan in sufficient time to evaluate the results at the end. Given the diverse question types in this test, it is important to know where your real gaps are. These are the sections where you can explicitly dedicate time in your learning plan.

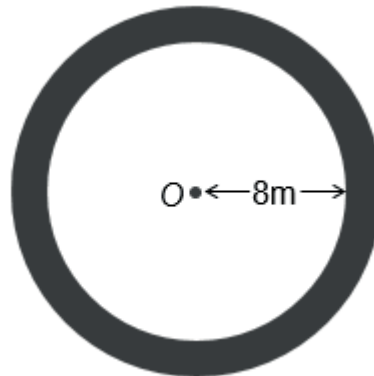
The carefully selected practice questions are based on extensive research and the various experiences of students who have taken the exam. The questions span a range of difficulty levels in order to simulate the test situation.

This Practice Test has been created to compliment the other books in our series of TestAS preparation guides. For more detailed coverage of the topic areas covered in this exam, please see both our Core Test Book and the Mathematics, Computer Science, and Natural Sciences preparation module. In these we included in-depth explanations of common test subjects which have appeared in recent tests, different strategies to solve the questions as well as many questions to practice with.

We hope that the following test will provide you with a solid grasp of the knowledge you are expected to command, and a familiarity with the format of the questions for this Subject Test.

We wish you much success!

- 1.21** The figure below shows a circular flower bed centered at point O, surrounded by a circular path that is 3 meters wide. What is the area of the path, in square meters?

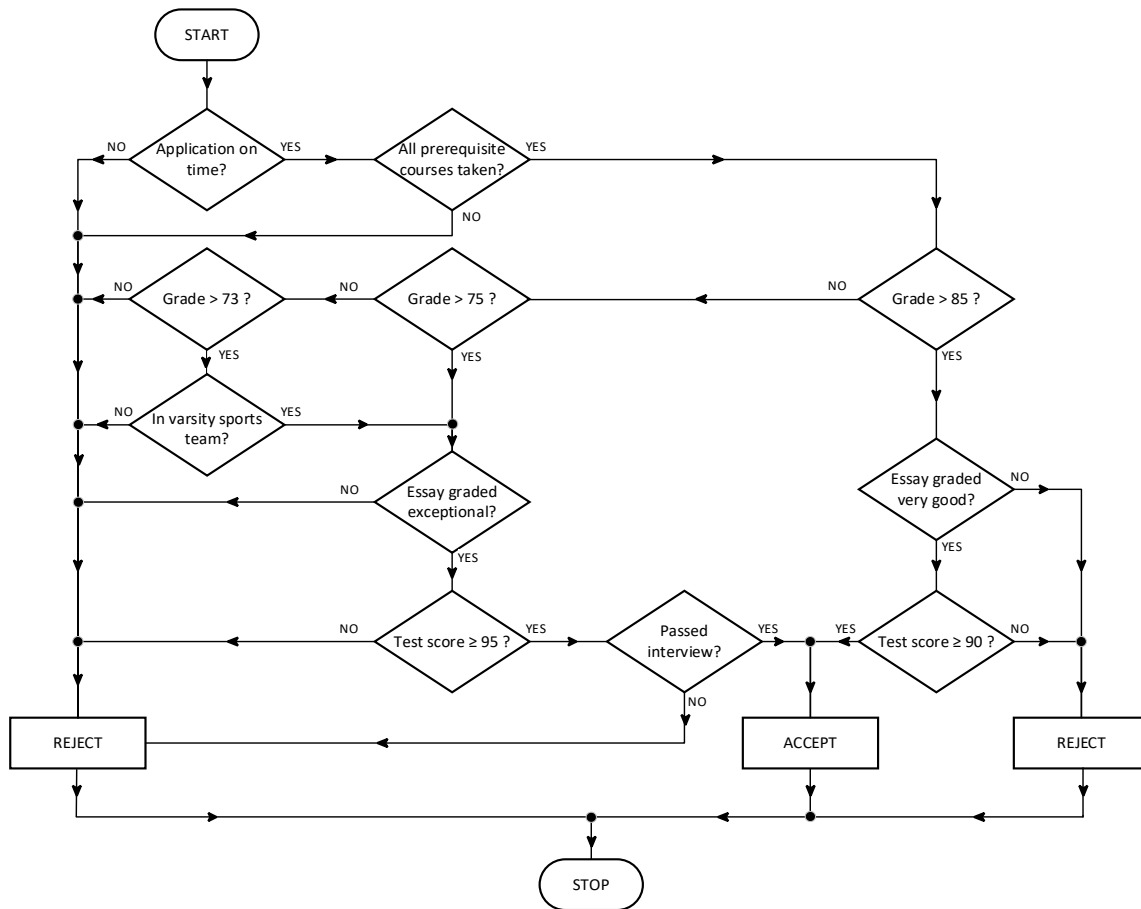


- (A)  $25 \pi$
- (B)  $38 \pi$
- (C)  $55 \pi$
- (D)  $57 \pi$
- 1.22** Loretta works on the line at the car factory. She gets paid  $x$  dollars for the first 8 hours she works and  $y$  dollars per hour for each hour she works over 8 hours. During one week, she works 11 hours on Monday, 9 hours on Tuesday, 10 hours Wednesday, 9 hours on Thursday and 8 hours on Friday. What is the average daily wage Loretta makes for the 5-day week?
- (A)  $x + 1.4y$
- (B)  $2x + y$
- (C)  $(5x + 8y)/5$
- (D)  $8x + 1.4y$

Do not turn the page!  
Wait for the sign of the test conductor!

**STOP**

6.3

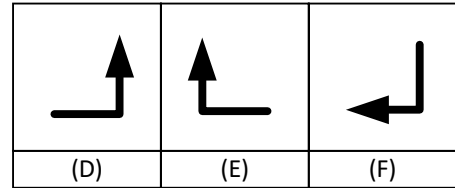
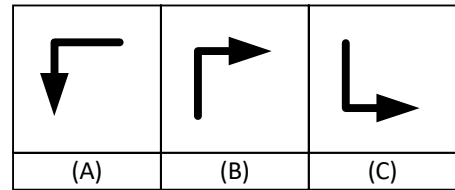
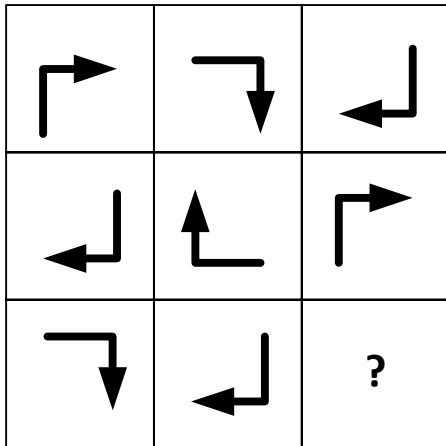


Which of the following statements is or are correct?

- I. It is not possible for a student to be accepted to this university if his grade is 73.
  - II. If a student has a school grade of 90 and a test score of 90, he is guaranteed to receive an offer at this university.
- (A) Only statement I is correct.
  - (B) Only statement II is correct.
  - (C) Both statements are correct.
  - (D) Neither of the two statements is correct.

### 3.3 CORE TEST: COMPLETING PATTERNS

#### 3.1



**Answer: E**

*How the diagram should be read: From left to right →*

*Direction/Orientation: The arrows rotate in a clockwise direction*

*From left to right: Each arrow is rotated clockwise by 90 degrees in relation to the one before. Therefore, the arrow that belongs in the bottom right-hand corner is the one with the arrow head pointing upwards in a clockwise direction.*