



Internationale  
Fachhochschule

**Bad Honnef · Bonn**

International University  
of Applied Sciences

## Entrance Exam Preparation Materials

The international academic and administrative team at the International University of Applied Sciences Bad Honnef · Bonn is looking forward to greeting you on campus and wishes you the best of luck for the entrance exam!

We would like to assist you in your first step to becoming a student at our University and are therefore providing you with entrance exam information and preparation materials.

The exam takes approximately 2 1/2 hours and is composed of the following four elements:

1. **General Knowledge:** 75 multiple choice questions, 30 minutes
2. **Mathematics and Logic:** 15 questions, 60 minutes
3. **English Grammar and Comprehension:** 25 "fill in the blank", 3 essays varying in length, 60 minutes
4. **English Oral Exam:** Interview, 15 minutes

The next few pages provide you with sample exercises.

For further questions and concerns, do not hesitate to get in contact with us!

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## 1. General Knowledge: 75 questions, 30 minutes

The general knowledge section of the exam is structured as follows:

1. 16 questions in the area of politics and history.

Example: What is the name of the current French president?

- Francois Mitterand
- Jaques Chirac
- Lionel Jospin
- Laurent Fabius

2. 20 questions in the area of the arts.

Example: Which of the following painters is not German?

- Albrecht Dürer
- Max Klee
- Jan Breughel
- August Macke

3. 23 questions in the area of geography.

Example: Which of the following countries does not border the Baltic Sea?

- Sweden
- Norway
- Denmark
- Finland

4. 5 questions in the area of science and technology.

Example: Who is credited with inventing the automobile?

- Felix Wankel
- Gottlieb Daimler
- Rudolf Diesel
- Karl Benz

5. 8 questions in the area of sports.

Example: Which German racing cyclist has ever won the Tour de France?

- Jan Ullrich
- Erik Zabel
- Dietrich Thurau
- Udo Bölz

*\*\*Being able to answer all of these questions is by no means necessary. You should just have a general understanding. For most candidates this test is not a problem.*

*\*\*If you are interested in testing your general knowledge online visit: [www.wissen.de](http://www.wissen.de) and check out "Geschichte, Gegenwart, Zukunft".*

## 2. Math and Logic: 15 questions, 60 minutes

### Pre-test Exercises

#### Part A: Rule of Three – Distribution – Foreign Currency - Percentages

1. The monthly output of 9 machines amounts to 45.000 pieces. The monthly output has to be increased to 75.000 pieces. How many machines in total will be necessary?
2. For seasonal work to be accomplished 36 workers need 48 days working 8 hours a day. Now the same work has to be accomplished within 32 days using 9 additional workers. How many work hours a day are needed to finish within 32 days?
3. A merchant plans to make coffee blends at a price of € 7.50 for half a kilo. The price of the first variety of coffee used is € 8.50 for half a kilo and the price of the second variety of coffee used is € 6.00 for half a kilo. How does the merchant blend the coffee proportionally to achieve a price of € 7.50 per half kilo?
4. Three partners are buying a house and participate financially as follows: A with 0,25, B with 0,2 and C with € 148,500.00. What is the total price of the house?
5. A textile merchant from Britain exchanges British pounds into Euro at a bank in Frankfurt. The exchange rate is quoted at 0.64. What does that mean?
6. A textile producer in Bremen, Germany imports 20,000 kg of cotton from the United States. The invoice comes to \$ 40,000.00. What is the price of half a kilo cotton in Euro? (\$1.00 = € 1.10)
7. A bank transfers 43.000,00 Canadian Dollars at an exchange rate of € 0.64 per Canadian Dollar to the Canadian business partner of their client. What was the total amount on the invoice in Euro?
8. A retailer receives the following offers for purchasing a commodity :
  - a. € 3,340.- with a 3% discount
  - b. € 3,300.- with a 2% discount
  - c. € 3,310.- with a 2,5% discountWhich one is the best offer?
9. Two cooking pots are offered at € 28,-- and € 21,-- respectively. How much more expensive is the first cooking pot as a percentage?
10. The price of a radio if paid at once in cash comes to € 350,--. A customer pays € 58,- in cash and agrees to pay another 8 instalments of € 40,-- each. How much more in percent has the customer to pay when choosing payment by instalments?

## Part B: Logic

1. Premise 1: All of the house owners are Italians.  
Premise 2: None of the house owners are guards.  
The conclusion is: Some of the guards are Italians.

This conclusion is:  possible  not possible

2. Premise 1: All A are B  
Premise 2: All C are D

Conclusion

a. All A that are not D are B that are not C  possible  not possible

b. All A that are C are B that are D  possible  not possible

c. Some A that are D are B that are C  possible  not possible

d. Some A that are C are not B that are D  possible  not possible

e. All A that are D are B that are C  possible  not possible

3. What is the value of x?  $X + Y = 12$   
 $2Y = 6$

4. Is  $XY > 0$ ?  $XY^2 > 0$   
 $X^2 Y^3 < 0$

**Part A      Answers**

1.      15
2.      9.6
3.      3 : 2
4.      € 270,000.00
5.      GBP 64.00 = € 100.00
6.      € 1.10
7.      € 27,520.00
8.      c.
9.      33 1/3 %
10.     8 %

**Part B      Answers**

1.      possible
- 2.a.     possible
- 2.b.     possible
- 2.c.     possible
- 2.d.     not possible
- 2.e.     possible
3.       $X = 9$
4.      XY is negative

**3. English Grammar and Comprehension: 25 "fill in the blank" and 3 Essays, 60 minutes**

**Grammar: Complete the passage by putting one of the following words in each space:**

in order to - made - to predict - had to be discussed - smooth - briefing - chose - over - speakers - front office - heads - was held - where - could - in order to - leading - were invited - with

In 1999, the Chief Executive Officer of a 1) \_\_\_\_\_ American company invited 250 of his most important European clients to attend a conference 2) \_\_\_\_\_ four days at Le Petit Palais, the conference centre of Le Montreux Palace. Former Heads of State 3) \_\_\_\_\_, as well as guest 4) \_\_\_\_\_. All necessary security arrangements 5) \_\_\_\_\_ in advance, and the organizers 6) \_\_\_\_\_ each suite personally for these most important of guests 7) \_\_\_\_\_ the guidance of the 8) \_\_\_\_\_ manager.

Daily meetings started early in the morning with the 9) \_\_\_\_\_ of all departments for a full 10) \_\_\_\_\_, and then with the conference organizers. At the end of each day, a meeting 11) \_\_\_\_\_ at 11pm with the security officers 12) \_\_\_\_\_ ensure the 13) \_\_\_\_\_ running of the next morning's most important event. Mistakes cannot be 14) \_\_\_\_\_ in top VIP events and the Chief Executive Officer prefers 15) \_\_\_\_\_ situations 16) \_\_\_\_\_ problems 17) \_\_\_\_\_ occur, 18) \_\_\_\_\_ react to them.

**Answers:**

1. leading, 2. over, 3. were invited, 4. speakers, 5. had to be discussed, 6. chose, 7. with, 8. front office, 9. heads, 10. briefing, 11. was held, 12. in order to, 13. smooth, 14. made, 15. to predict, 16. where, 17. could, 18. in order to

*\*\*The text on the exam is longer and includes more blanks. Topics are study-related. One long essay of up to 400 words and two short essays of up to 100 words each are required to be written about the "fill in the blank" text.*

*\*\* The English Oral Exam is a 15 minute interview, which tests your ability to freely speak English. It is comparable to a job interview.*