

BUSINESS AND ADMINISTRATION 1: ENTRANCE EXAMINATION 2018 FOR INTERNATIONAL BUSINESS, SERVICE BUSINESS MANAGEMENT AND eSPORTS BUSINESS

Family Name _____	Given name(s) _____
Date of Birth _____ <i>Day, month, year</i>	
ID/Passport Number _____	Phone Number _____
E-mail _____	
Date when the exam taken ____ 11 April 2018 _____ <i>Day, month, year</i>	
Invitation received from _____ <i>Name of the University of Applied Sciences</i>	
Signature _____	

EXAM INSTRUCTIONS FOR THE APPLICANTS

The entrance examination for the field of business tests the applicants' logical and mathematical thinking and knowledge of English. A group discussion will be part of the entrance examination. The ability to communicate fluently in English is a prerequisite for admission. The applicants must pass all parts of the examination in order to be selected for admission.

<i>Examination part</i>	<i>Minimum points required</i>	<i>Maximum points</i>	<i>Time recommended</i>
Essay	3 points	10 points	75 min
Multiple-choice questions	2 points	6 points	45 min
Mathematics/Logic	2 points	8 points	60 min
Group discussion	3 points	16 points	
Total	10 points	40 points	

Length of the Exam:

The total duration of the **written part** of the business entrance examination is **3 hours**. In addition, there will be a group discussion after the written part. Ask the exam supervisors about your group discussion time when returning the exam papers.

Equipment and materials allowed:

In the entrance exam **no** materials, **no** dictionaries, **no** mobile phones **nor** calculators are allowed. The applicant may have their identification card or passport on the table when writing the exam.

IMPORTANT:

Start the exam by writing your **personal information on pages 1, 2 (= Answer Sheet) and 3 (= Essay)**. Return **all exam materials** to the exam supervisors after the exam. Have your identification card or passport ready **to prove your identity** when you return your exam papers to the exam supervisors.

Family name _____ Given name(s) _____
 Date of birth _____
 (Day, month, year)

ANSWER SHEET: Write your personal information at the top of this page.

Mark all your answers for the Part 2: Multiple Choice Statements and Part 3: Mathematics and Logic Tasks in the tables below. Mark the correct corresponding letter in the table with an "X".

Example: If you think the alternative "C" is correct for Question 1, then mark the correct answer like this:

Question	A	B	C	D
1			X	

PART 2: MULTIPLE CHOICE STATEMENTS

_____ / 6 points

Question	A	B	C	D		Question	A	B	C	D	
1						9					
2						10					
3						11					
4						12					
5						13					
6						14					
7						15					
8											

PART 3: MATHEMATICS AND LOGIC TASKS

_____ / 8 points

Question	A	B	C	D		Question	A	B	C	D	if D, specify:
1						11					
2						12					
3						13					
4						14					
5						15					
6						16					
7						17					
8						18					
9						19					
10						20					

PART 2: MULTIPLE CHOICE STATEMENTS

The statements are based on the pre-reading materials, “**The Future of Work**” and “**Towards a Sustainable Wellbeing Society**”. Read the fifteen statements carefully and **mark all your answers on the ANSWER SHEET (on page 2)**. Each correct answer is worth **+ 0.4** points; an incorrect answer/ no answer are both worth **0** points. Maximum score **6**; minimum **2 points** to qualify for admission. **The recommended time usage is 45 minutes.**

1. **At the moment in Europe, the majority of the workers hold _____ work contracts.**
 - A. flexible
 - B. permanent
 - C. no
 - D. part-time

2. **Which of the following has not been mentioned as a task for active labour market policies for adapting to new realities?**
 - A. Easing the transition from employment to freelancing and back
 - B. Seeking ways to provide more security to gig economy workers
 - C. Making greater efforts to provide customised skills and trainings that maximise employment potential
 - D. Supporting the development of new technologies to reduce the negative impacts of the climate change

3. **Which of the following statements is true about labour market in Europe in 2015?**
 - A. Over 50 year-olds’ self-employment has fallen from 2002 to 2014.
 - B. The share of self-employed females of all females is higher than the share of self-employed males of all males.
 - C. Part-time employment was over 70 % in 2014.
 - D. Self-employment in the EU constitutes 36,4 percent of the labour market.

4. **Which of the following statements is not true about the changing work-life patterns and preferences?**
 - A. People will have to increasingly learn new skills to remain employable throughout their working life.
 - B. It remains difficult for women to re-enter the labour market after they have taken time out to raise children.
 - C. Millennials are keen to have more diversity and also more flexibility in their work patterns and commitments.
 - D. Especially highly skilled workers are more and more interested in retirement and not staying in the workforce that long.

5. **How can one improve professional resilience?**
 - A. By up-skilling opportunities throughout one’s life
 - B. By self-employment
 - C. By temporary employment
 - D. All of the above

6. **Which are the reasons why it will be more difficult to target training and retraining?**
 - A. Decreased likelihood of job changes
 - B. Growing number of generation Z in the workforce
 - C. Contractual and on-demand work
 - D. Growing number of elderly employees

7. _____ are a major cause of early retirement and social exclusion in many Western countries.

- A. Obesity and diabetes
- B. Mental health problems
- C. Lower skills levels
- D. Back problems and lack of physical activity

8. What is not an aspect of circular economy?

- A. A producer can use the waste of another as raw material for their product
- B. Circular economy is a way to avoid any emissions
- C. Using products for as long as possible
- D. Sharing products with others

9. Which of the following is a current trend in the Western countries?

- A. Voter turnout is on the increase.
- B. Citizens trust politicians.
- C. Globalisation has increased the power of national parliaments.
- D. Internet provides citizens with new direct channels for political participation.

10. Which factor is not an aspect that was mentioned as helping to create a culture of sustainability?

- A. Increasing people's self-awareness so that they have a realistic understanding of their own needs and priorities
- B. Broad-based general knowledge for understanding the consequences of the daily choices.
- C. Individual learning where people have time to deepen their individual understanding
- D. Peer pressure

11. What is meant by collaborative consumption?

- A. Consuming products and services within a family
- B. Consumption in collaborative and collective cultures
- C. Sharing economy of borrowing, sharing and exchanging things
- D. Consuming products and services that have been created collaboratively

12. Which major business opportunities are there to be seen when promoting sustainable lifestyle?

- A. 1, 3 and 4
 - B. 1, 2 and 4
 - C. 2, 3 and 4
 - D. 2 and 3
1. Electronic applications that allow people to monitor their own health
 2. Construction services aimed at improving the energy-efficiency of homes
 3. Reinventing the uses of products made of plastic
 4. Intelligent transport systems

13. Which is a typical trend about comprehensive social and health care services?

- A. Health primarily stems from well-working health care services.
- B. Needs relating to social inclusion and coping mechanisms have increased.
- C. Investing in the well-being of children and young is less important in the aging societies.
- D. Customers expect more and more from the physicians to know everything and make smart decisions for them.

14. In the future, our society's well-being services need to be more customer-orientated and more _____, and citizens must be given more choice.

- A. personalised
- B. distributed
- C. time-sensitive
- D. entertaining

15. As described in Sitra Working Paper 1.4.2015, Some Brazilian and American pilot projects for future schools have included:

- A. 1, 2, and 3
 - B. 1, 2 and 4
 - C. 2, 3 and 4
 - D. 3 and 4
1. multi-aged groups of pupils
 2. tutors as providers of holistic support to learners
 3. schools understood as a part of a wider ecosystem benefitting also the families
 4. transformation of traditional lectures into a robotized form

PART 3: MATHEMATICS AND LOGIC

Do the following twenty (20) problem-solving tasks. Each correct answer is worth + 0.4 points; an incorrect answer/ no answer are both worth 0 points. Maximum score **8**; minimum **2 points** to qualify for admission. **Mark all your answers on the ANSWER SHEET (on page 2)**. The recommended time usage is **60 minutes**.

1. Number B is four times as much as number A. On the other hand, number B is one quarter of number C. What is number A, when number C = 48 ?

- a) 2 b) 3 c) 4 d) 6

2. A shop pays its wholesaler \$40 for a certain product, and then sells it to a client for \$75. What is the markup rate?

- a) 35% b) 50% c) 63.5% d) 87.5%

3. Calculate $-7689 + 8165 - 8065 - (-7590) =$

- a) -1 b) 199 c) 1 d) -99

4. John bought a calculator for 17.50, a pen for 11.50 euro and a notebook for 4.50 euro. If he gave the salesperson 50 euro, how much should he have received back?

- a) 18.50 euro b) 17.50 euro c) 16.50 euro d) 15.50 euro

5. Can you work out which number (?) comes next in this sequence 4, 5, 7, 11, 19, ?

- a) 41 b) 35 c) 38 d) 30

6. The price of a product was first increased by 15% and then by 20%. How many per cent had the price increased altogether?

- a) 35% b) 38% c) 40% d) 42%

7. A 20% discount is allowed on a necklace that is sold at the price of €176. How many euros was the discount?

- a) €32.00 b) €36.20 c) €34.00 d) €44.00

8. Five percent of 1500 euros is

- a) 7.00 euro b) 7.50 euro c) 75.00 euro d) 750.00 euro

9. A tractor depreciates by 30% a year. What was the purchase price of the tractor two years ago, if its selling price is now €3675?

- a) €5880 b) €6211 c) €7500 d) €9950

10. Calculate $18/2 \times 3 =$

- a) 18 b) 3 c) 6 d) 27

11. When my godmother was 41 years old, I was 8. Now she is twice as old as I. What is my age now?

- a) 37 years b) 27 years c) 33 years d) Other, specify on answer sheet

12. If you increase the price of a product by 105%, you have to multiply the original price by the factor

- a) 1.05 b) 2.05 c) 3.05 d) Other, specify on answer sheet

13. If 20 % of your clients are female, then there are how many male clients?

- a) 8.0 % b) 0.8 % c) 80 % d) Other, specify on answer sheet

14. Find the single percentage increase or decrease equivalent to a 10% increase followed by a 10% decrease.

- a) -1.0% b) -0.1% c) 0.2% d) Other, specify on answer sheet

15. A 10% increase in the price of natural gas decrease consumption by 5%. How many per cent and in which direction did the sales returns change?

- a) +4.5% b) -5.0% c) +5.0% d) Other, specify on answer sheet

16. Can you work out which letter (?) comes next in this sequence A, D, G, J, ?

- a) M b) N c) O d) Other, specify on answer sheet

17. $(2x + 2)^2 - (4x + 8)x$ is equal to

- a) 4 b) $-8x + 4$ c) $4x^2 + 12x + 4$ d) Other, specify on answer sheet

18. Calculate $(8722 + 7832 - 1288) \times 0.3 =$

- a) 305.32 b) 4579.8 c) 12212.8 d) Other, specify on answer sheet

19. My basic salary plus overtime salary is altogether €2500. My basic salary is €2000 more than my overtime salary. What is my basic salary?

- a) €2100 b) €2250 c) €2300 d) Other, specify on answer sheet

20. What is half percentages of \$50 ?

- a) \$2,50 b) \$0.025 c) \$0.25 d) Other, specify on answer sheet