Czech University of Life Sciences Prague
Faculty of Engineering
ANSWER SHEET – MSc. study program

Name and surname:...

Date of birth:...

Address:...

E-mail: ....

Please sign correct answer by cross in the relevant rectangle ☒. The cross must not overlap the rectangle. If you make a mistake in answering, please fill in the whole crossed rectangle in the following way ■ .

ENGLISH TEST - Recommended time of processing 45 minutes

A B C D	A B C D	A B C D
1.	11.	21.
2.	12.	22.
3.	13.	23.
4.	14.	24.
5.	15.	25.
6.	16.	26.
7.	17.	27.
8.	18.	28.
9.	19.	29.
10.	20.	30.

MATHEMATICS TEST
Recommended time of processing 30 minutes

A B C D E	A B C D E
1.	6.
2.	7.
3.	8.
4.	9.
5.	10.

ENGLISH TEST

1. Read the following text carefully

How the CAP works

Common Agricultural Policy (CAP) is an integrated system of measures which works by maintaining commodity price levels within the EU and by subsidising production. There are three principal mechanisms:

- Import Tariffs are applied to specified goods imported into the EU. These are set at a level to raise the world market price up to the EU target price. The target price is chosen as the maximum desirable price for those goods within the EU.
- An internal intervention price is set. If the internal market price falls below the intervention level then the EU will buy up goods to raise the price to the intervention level. The intervention price is set lower than the target price. The internal market price can only vary in the range between the intervention price and target price.

Subsidies are paid to farmers growing particular crops. This was intended to encourage farmers to choose to grow those crops attracting subsidies and maintain home-grown supplies. Subsidies were generally paid on the area of land growing a particular crop, rather than on the total amount of crop produced. Current reforms of the system now underway are phasing out specific crop subsidies in favour of flat-rate subsidies based only on the area of land in cultivation, and in return for adopting environmentally beneficial farming methods. This will reduce, but not eliminate, the economic incentive to overproduce

The change in subsidies is intended to be accomplished by 2012, but individual governments have freedom to decide how the new scheme will be introduced. The UK government has decided to run both systems of subsidy together, each year transferring a larger proportion of the total payments to the new scheme. Other governments have chosen to wait, and change the system at the latest possible time.

1. Which of the sentences bellow is true with regard to the above text?
a) The EU seeks to improve market prices by increasing the numbers of animals in the livestock sector.
b) The current reforms of the system now under way prefer specific crop subsidies to direct area payments
c) The intervention price is set into motion if the internal market price gets above a certain level
d) Subsidies are generally rather paid on the area of a particular crop than on the amount of crop
e) The CAP operates according to four main principles

2. With regard to the text, find the appropriate answer to the following question
What is the meaning of target prices?
    a) to set the maximum desirable price for goods
    b) to set the minimum desirable price for goods
    c) to set the optimum price for goods
    d) to set the difference between maximum and minimum price
    e) To cut down output and thus increase market prices.

3. Which is the correct interpretation of the following statement?
"British exporters are generally advised to avoid direct selling in new export markets"
- a) The exporters should not enter new markets
- b) The exporters are advised to seek new markets
- c) New export markets are recommended by the advisers
- d) New markets are risky, an indirect approach is recommended
- e) The exporters are supported in direct sales

4. Which is the correct interpretation of the following statement?
"That was a narrow escape!"
- a) The exit to the place was not too wide.
- b) The entrance to the place was not too good.
- c) It was easy to escape from the place.
- d) The person has just avoided a danger.

5. Which is the correct interpretation of the following statement?
"Depressed people frequently find healing in the presence of an animal."
- a) Depressed people should not be put to the presence of animals.
- b) People are depressed if they cannot heal an animal.
- c) To be with animals helps people to overcome depression.
- d) Depressed people are frequently those who own an animal.
- e) Depressed people are frequently cruel to animals.

6. Choose the correct option:
You can go to the party .... you are back home by midnight.
- a) as well as
- b) as long as
- c) as soon as
- d) as far as
- e) as time as

7. Choose the correct option:
.... orange juice in the fridge.
- a) There is not any
- b) There is not some
- c) There isn't no
- d) There aren't no
- e) There is any

8. Choose the correct option:

How many sheets of paper do you think this file will ....?

    a) occupy
    b) suit
    c) fit
    d) form
    e) hold

9. Choose the correct option:

I have English class ....

    a) on Tuesdays
    b) in Tuesdays
    c) at Tuesdays
    d) by Tuesdays
    e) Tuesdays

10. Choose the correct option:

The kitchen cannot be dirty, she ......

    a) have just cleaned it
    b) is just cleaned it
    c) has just cleaned it
    d) was just cleaned it
    e) did just cleaned it

11. Choose the correct option:

If I .... you, I would take the risk

    a) am
    b) have been
    c) were
    d) shall be
    e) would be

12. Choose the correct option:

Your can meet me .... you like

    a) whenever
    b) whichever
    c) whatever
    d) always
    e) soon

13. Choose the correct option:

    a) What is like the weather today?
    b) How is today the weather?
    c) What is the weather like today?
    d) How the weather is today?
    e) Which is the weather like today?

14. **Can you complete the saying?** *"Don't put all your eggs in one ...."*
    a) price
    b) house
    c) basket
    d) hen
    e) moment

15. **Can you complete the saying?** *" Still waters run ...."*
    a) quick
    b) slow
    c) often
    d) deep
    e) last

16. **Mark the word which does not belong to the group**
    a) assets
    b) costs
    c) project
    d) product
    e) profit

17. **Mark the couple of words which do not belong together**
    a) maximum profit
    b) minimum loss
    c) overhead costs
    d) domestic product
    e) internal export

18. **Mark the word which does not belong to the group**
    a) investment
    b) capital
    c) credit
    d) interest rate
    e) information

19. **Mark the couple of words which are not synonymous**
    a) assurance   guarantee
    b) cheek   impudence
    c) discord   agreement
    d) transform   change
    e) shine   radiate

20. **Mark the couple of words which are synonymous**
    a) empty   devoid
    b) impression   punishment
    c) venomous   respectful
    d) mingle   deliver
    e) abuse   improve

21 The front door is locked. You had better ... round to the back entrance.
a) to go
c) go
b) be going
d) going

22 Glenna is doing her homework now, ... is a good thing.
a) what
c) which
b) and there
d) because it

23 Julia had the central heating ... in her house.
a) install
c) to install
b) installed
d) installing

24 A thief has been ... by the police.
a) catching
c) catch
b) caught
d) coughed

25 How often do you have your tape recorder ... ?
a) service
c) serviced
b) to service
d) have serviced

26 You used to go to the disco when you were a child, ... ?
a) hadn't you
c) didn't you
b) did you
d) weren't you

27 Do you know how ... ?
a) do aeroplanes fly
c) flies an aeroplane
b) fly aeroplanes
d) aeroplanes fly

28 I feel very full after that meal. I'm not used to ... so much.
a) eat
c) eating
b) be eating
d) ate

29 Let him ... what he wants!
a) do
c) to do
b) doing
d) with doing

30 There is plenty of snow in the mountains so we'll be able ... .
a) go to ski
c) going to ski
b) to go skiing
d) go skiing

MATHEMATICS TEST

1) Which one of the equations given below does have just two solutions within the interval $\langle 0, \pi\rangle$:
   a) $3\sin x - 2 = 0$
   b) $2\sin x - 3 = 0$
   c) $3\sin x + 2 = 0$
   d) $2\sin x + 3 = 0$
   e) none of the given answers is correct

2) Definition space of the function $y = \ln\dfrac{3-x}{3+x}$ is the set:
   a) $R - \{-3\}$
   b) $(3, +\infty)$
   c) $(-\infty, 3)$
   d) $(-3, 3)$
   e) none of the given answers is correct

3) The focus of a parabola $y^2 - 6x + 4y + 4 = 0$ is situated, from the viewpoint of the central straight line:
   a) to the left
   b) to the right
   c) below
   d) above
   e) none of the given answers is correct

4) The number of all the real solutions of the equation $x + 5\sqrt{x} + 6 = 0$ equals the number:
   a) 1
   b) 2
   c) 3
   d) 4
   e) none of the given answers is correct

5) The sum of roots of the equation $|x+3| = 3$ equals:
   a) -6
   b) 6
   c) 3
   d) -3
   e) none of the given answers is correct

6) The equation $\log_3 27x + \log_3 x^2 = 15$ has a single root in R, situated within the interval:
   a) $(71, 83)$
   b) $(49, 57)$
   c) $(27, 50)$
   d) $(3, 15)$
   e) none of the given answers is correct

7) The set of all real solution of the inequality $|x+2| \le -3$ is:
   a) $\langle -3; -2\rangle$
   b) $(-\infty, 2)$
   c) $(-2, +\infty)$
   d) $(-3; -2)$
   e) none of the given answers is correct

8) Solution of the equation $3\log_3 x - \log_3 x^2 = 3$ in R is the set:
   a) $\{3\}$
   b) $\{12\}$
   c) $\{9\}$
   d) $\{27\}$
   e) none of the given answers is correct

9) What angle is between two intersecting straight lines $x - y - 2 = 0$ a $x = 2t, y = 1 + 2t$:
   a) they are parallel
   b) they are perpendicular
   c) 60^0
   d) 45^0
   e) none of the given answers is correct

10) Within a circle with radius r, an equilateral triangle is inscribed. The height of the equilateral triangle equals:
   a) $r\sqrt{2}$
   b) $r\sqrt{3}$
   c) $\dfrac{3r}{2}$
   d) $\dfrac{r\sqrt{3}}{3}$
   e) none of the given answers is correct