

# Instructions for the exam in Product Generation Engineering

State 02.09.2020

IPEK – Institut für Produktentwicklung



How to PGE-Exam



# General Information

## Duration

- The editing time is **120 minutes**.
- Prior there are **10 minutes** to read the tasks.
- **Total duration: 130 minutes**

# General Information

## Permitted Aids

- Non-programmable **calculators**
- **Dictionaries** (Only *real* books)!  
Electronic Dictionaries are not permitted! Dictionaries will get checked by us at the start of the exam.
- **Red pens** and **pencils** are not permitted! Use a normal (black or blue) **ball-point pen**.
- Own paper, Notebooks or similar is not needed.  
The required paper for the exam will be provided in sufficient quantity.

# General Information

## Processing the exam

- The Exam consists of a **collection of exercises** and a **double sided answer sheet**.
- Solutions have to be marked solely on the **answer sheet**. **Notes** on the collection of exercises are **permitted** but will not be graded.
- Answers on the **collection of exercises will not be graded**.  
The back of the sheet can be used for calculations.
- **Corrections** can be done by **blackening** the set **cross** and putting a new cross.

# General Information

## Processing the exam

- A **manual correction** is only needed, if an **already blacked out box is chosen again**.
- Then the cross to be graded has to be marked **clearly** on both the answer sheet and the collection of exercises. (e.g. by circling it or setting an arrow).
- The **number** of the task to be manually corrected has to be **noted in the designated area** on the collection of exercises.

### Manual correction:

Only enter tasks for which you would like to have a blackened cross scored (clearly mark the correct solution on both the collection of exercises as well as the answer sheet).

Aufgabennummer

.....  
.....  
.....

# Manual Correction

Prüfungsbogen: 0

EvaExam	Electric Paper
KIT-IPEK	Methods and processes of PGE – Product generation engineering, 25 September 2020
Platznummer / Seatnumber:	<input checked="" type="checkbox"/>

Please enter your student number. Otherwise it is not possible to identify the student and to correct the exam manually.

Student number: 1 2 3 4 5 6 7

Please additionally add your seat number above the explanation.

Duration: 120 minutes (+ 10 minutes to read the tasks)

Permitted tools: calculator (not programmable), dictionary

The exam comprises **10 tasks**. Each exam sample has **28 pages** (including the cover sheet).

Please complete the tasks on the **answer sheets**. You may use the back of the page for additional calculations. Those will not be graded.

It is **not allowed** to use **red pens**, **fineliners** or **pencils**! Please use a regular **ball-point pen**.

Points are awarded separately for each subtask. Example: If wrong answers are given in task 1.1, this has no effect on subtask 1.2. The indicated points refer to the individual task.  
Do not remove the staple from the task sheets. Submit the task sheets and the double-sided answer sheet.

The tasks refer to the contents of the summer semester 2019 as well as the summer semester 2020.

## Manual correction:

Only enter tasks for which you would like to have a blackened cross scored (clearly mark the correct solution on both the collection of exercises as well as the answer sheet).

Task number 1 2, 3 7, 4 2

.....  
.....  
.....  
.....  
.....

## On the collection of exercises:

12: 2 + 3 = ? (2 points, evaluation: 2)

- A) 1
- B) 3
- ~~X~~ 5
- D) 7

## On the answer sheet:

12:

- A
- B
- C
- D

# General Information

## Processing the exam

- Enter your student number also on the collection of exercises.  
Only then a manual correction is possible!

- **No less than 0 points** can be achieved per sub-task.
- Single Choice:  
Points will be awarded only for the **correct solution**.
- Multiple Choice:  
Points will be given for **every correctly set cross** and **correctly not set cross**.  
Wrongly set crosses or wrongly not set crosses lead to point deduction.
- The stated points are showing the **maximum achievable points** of the task.



- The sub tasks are **independent** of one another.

The PGE-exam of winter semester 2019/2020 could not take place on the 09.04.2020.  
Tick the correct statements:

1 Which virus was the cause of the shift of the PGE-exam 2020?

- A/H1N1
- Sars-CoV-2
- A/H5N1
- HIV

Sub task 1

2 Which sickness is caused by it?

- Swine flu
- Covid-19
- Bird flu
- AIDS

Sub task 2

# Scoring

## Evaluation factor

- The **evaluation factor** states the weighting of a correctly and correctly not set cross (one checkbox always has a basis of 1 point. This will be multiplied by the evaluation factor).

# Scoring

## Single Choice

- Only **one** cross is permitted in a **single choice task**.
- There is only **one** possible answer.
- **Wrong answers** and **multiple crosses** lead to 0 points.
- Single choice tasks are indicated by:  
**Note: Only one answer is possible. Wrong answers lead to 0 points.**

# Example

## Single Choice

Wrongly answered:

Question 1:  $2 + 3 = ?$  (2 points, evaluation: 2)

- 0P  1  
0P  3  
0P  5  
0P  7 → 0 points achieved

Question 1:  $2 + 3 = ?$  (2 points, evaluation: 2)

- 0P  1  
0P  3  
0P  5  
0P  7 → 0 points achieved

Correctly answered:

Question 1:  $2 + 3 = ?$  (2 points, evaluation: 2)

- 0P  1  
0P  3  
2P  5  
0P  7 → 2 points achieved

# Scoring

## Multiple Choice

- **More than one** cross is permitted in a **multiple choice task**.
- There are **one or more possible answers**.
- **Wrong answers** (wrongly set crosses and wrongly not set crosses) lead to point deduction.
- Multiple choice tasks are indicated by:  
**Note: Multiple answers are possible. Wrong answers will be penalized.**

# Example

## Multiple Choice

### Wrongly answered (1):

Question 2: Which facts about germany are correct? (2 points, evaluation: 0,5)

- 0,5P  Germany has 3 timezones.
- 0,5P  31 percent of germanys area is forest.
- 0,5P  Germany was the first country to introduce the summer time.
- 0,5P  Germanys highest point is 3113 m.

→ 0 points achieved

### Wrongly answered (2):

Question 2: Which facts about germany are correct? (2 points, evaluation: 0,5)

- 0,5P  Germany has 3 timezones.
- 0,5P  31 percent of germanys area is forest.
- 0,5P  Germany was the first country to introduce the summer time.
- 0,5P  Germanys highest point is 3113 m.

→ 1 point achieved

# Example

## Multiple Choice

Correctly answered:

Question 2: Which facts about germany are correct? (2 points, evaluation: 0,5)

- 0,5P  Germany has 3 timezones.
- 0,5P  31 percent of germanys area is forest.
- 0,5P  Germany was the first country to introduce the summer time.
- 0,5P  Germanys highest point is 3113 m.

→ 2 points achieved

# Good luck!