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First name :

Justin ~~van der~~

Last name :

Van der Krieken

TU Delft

Second Semester Examination– Jul 2018

Zesje test exam

TI-1337

Reading Time: 90 Minutes

Writing Time: 2 Hours

Permitted Materials: Non-programmable Calculators; Mathematical tables

*Answer **all** questions in this section using the answer boxes provided. Answers are expected to be succinct but complete. Answers that are too long and irrelevant will be penalized.*



Question 1 At what time did this presentation start?

A) 10.50

☒ B) 11.00

C) 11.15

Question 2 How big is the team Zesje?

A) 2

B) 5

C) 9

☒ D) None of the above

Question 3 Is LaTeX a good language to generate QR codes with?

A) Yes

☒ B) No

Question 4 Select the EEMCS building.



(A)



☒ (B)



(C)



Consider the following scenario. A team of 3 students work on a project for 10 weeks. Every student is able to work 40 hours every week. A percentage of overhead is introduced due to research, meetings and oversleeping; due to this the students lose 25% of their total time. Furthermore a report must be produced, which costs the students 20 hours each.

Question 5 How much time can be spend developing, and why? Show your calculations.

$$\cancel{\left((10 \times 40 \times 4) - (4 \cdot 20) \right) 0.75}$$
$$\cancel{= 1140}$$

$$(10 \times 40 \times 3 - 3 \cdot 20) 0.75$$
$$= 855$$

————— *End of Examination* —————



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First name :

Last name :

TU Delft

Second Semester Examination– Jul 2018

Zesje test exam

TI-1337

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- A) 10.50
- ☒ B) 11.00
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Question 2 How big is the team Zesje?

- A) 2
- B) 5
- C) 9
- ☒ D) None of the above

Question 3 Is LaTeX a good language to generate QR codes with?

- A) Yes
- ☒ B) No

Question 4 Select the EEMCS building.



(A)



(B)



☒ (C)



Consider the following scenario. A team of 3 students work on a project for 10 weeks. Every student is able to work 40 hours every week. A percentage of overhead is introduced due to research, meetings and oversleeping; due to this the students lose 25% of their total time. Furthermore a report must be produced, which costs the students 20 hours each.

Question 5 How much time can be spend developing, and why? Show your calculations.

$$\begin{aligned}\text{Total project time} &= 3 \cdot 40 \cdot 10 = \frac{1200}{1200} \text{ hours} \\ \text{Develop \& Report percentage} &= 1 - 0.25 = 0.75 \\ \text{Develop \& Report time} &= \frac{1200}{1200} \cdot 0.75 = \frac{900}{900} \text{ hours} \\ \text{Report time loss} &= 3 \cdot 20 = 60 \text{ hours} \\ \text{Develop time} &= \frac{900}{900} - 60 = \frac{840}{840} \text{ hours}\end{aligned}$$

———— End of Examination ————



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First name :

Donald

Last name :

Duck

TU Delft

Second Semester Examination– Jul 2018

Zesje test exam

TI-1337

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☒ A) Yes

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☒ (A)



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Question 5 How much time can be spend developing, and why? Show your calculations.

2, because potato.

———— *End of Examination* ————