



Student number :

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1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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First name :

Last name :

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.

yes.

——— *End of Examination* ———



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☒ (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.

~~$$((10 \times 40 \times 4) - (4.20)) 0.75$$
$$= 1140$$~~
~~$$(10 \times 40 \times 3 - 3.20) 0.75$$
$$= 855$$~~

———— *End of Examination* ————

Total project time = $3 \cdot 40 \cdot 10 = 1200$ hours

Develop & Export percentage = $1 - 0.25 = 0.75$

Develop & Report time = $\frac{1200}{1400} \cdot 0.75 = \frac{900}{1400}$ hours

Report time loss = $3 \cdot 20 = 60$ hours

Developer time = $\frac{900}{2400} - 60 = 840$ hours