## Question 1

(b) Michael has a credit card with a credit limit of $€ 1000$. Interest is charged monthly at $1 \cdot 5 \%$ of the amount owed. Michael gets a bill at the end of each month. At the start of January, Michael owes $€ 800$ on his credit card. If Michael makes no repayments and no more purchases, show that he will exceed his credit limit after 15 months.

(c) Michael buys an item costing $£ 95$ on the internet and pays with his credit card. If the exchange rate is $€ 1=£ 0 \cdot 8473$, calculate, correct to the nearest cent, the amount that will be included on Michael's credit card bill.


## Question 2

Question 1
(25 marks)
Alan pays income tax, a universal social charge (USC) and pay-related social insurance (PRSI) on his gross wages. His gross weekly wages are $€ 510$.
(a) Alan pays income tax at the rate of $20 \%$. He has weekly tax credits of $€ 63$. How much income tax does he pay?

(b) Alan pays the USC at the rate of $2 \%$ on the first $€ 193,4 \%$ on the next $€ 115$ and $7 \%$ on the balance. Calculate the amount of USC Alan pays.

(c) Alan also pays PRSI. His total weekly deductions amount to $€ 76 \cdot 92$. How much PRSI does Alan pay?

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## Question 3

A shopkeeper bought 25 school blazers at $€ 30$ each and 25 trousers at $€ 20$ each.
(a) Find the total cost to the shopkeeper.

(b) The shopkeeper sells a blazer and a trousers as a set for $€ 89 \cdot 95$. Find her profit on this transaction.

(c) The shopkeeper sells 22 blazer and trouser sets at $€ 89.95$ each. She sells the remaining 3 sets at a discount of $20 \%$ on the selling price. Find her mark up (profit as a percentage of cost price) on the total transaction.


