Last year Mukthar earned \$18 900.
 He did not pay tax on \$5500 of his earnings.
 He paid 24% tax on his remaining earnings.

0580/42/O/N/13

For Examiner's Use

(a) (i) Calculate how much tax Mukthar paid last year.

$$\frac{24}{100}$$
 x (18000-5500) = 3216

(ii) Calculate how much Mukthar earned each month after tax had been paid.

$$\frac{18900}{12} - \frac{3216}{12} = 1307$$

Answer(a)(ii) \$ 1304 [2]

(b) This year Mukthar now earns \$19750.50.

Calculate the percentage increase from \$18900.

$$\frac{19750.50 - 18900}{18900} \times 100 = 4.5.$$
Answer(b) 4.5 % [2]

- (c) Mukthar has \$1500 to invest in one of the following ways.
 - Account A paying simple interest at a rate of 4.1% per year
 - Account B paying compound interest at a rate of 3.3% per year

Which account will be worth more after 3 years and by how much?

Account
$$A = PNR + 1500 \Rightarrow 1500 \times 3 \times 4'1 + 1500 = $1684$$

Account B =
$$P(1+\frac{R}{100})^{6} = 1500(1+\frac{3\cdot3}{100})^{3} = $1653$$