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## PURE MATH

## ALGEBRA AND FUNCTION

| Level \& Board | EDEXCEL (A-LEVEL) |
| :--- | :--- |
| TOPIC: | SIMULTANEOUS |
| PAPER TYPE: | QUESTION PAPER 2 |
| TOTAL QUESTIONS | 8 |
| TOTAL MARKS | 38 |

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## Questions

Q1.
Solve simultaneous equations by substitution method.

$$
\begin{aligned}
& 2 x-y=14 \\
& 3 x+2 y=70
\end{aligned}
$$

(5)
(Total for question = 5 marks)

Q2.
Solve the simultaneous equations.

$$
\begin{aligned}
& 3 a+2 b=3 \\
& 2 a+b=1
\end{aligned}
$$

Q3.
Solve the simultaneous equations.

$$
\begin{array}{r}
-5 x+6 y=13 \\
5 x+2 y=11
\end{array}
$$

(4)
(Total for question = $\mathbf{4}$ marks)

Q4.
Solve the simultaneous equation by substitution method.

$$
\begin{aligned}
& x=y-5 \\
& x+y=5
\end{aligned}
$$

Q5.
Solve the simultaneous equation.

$$
\begin{aligned}
& 2 x+3 y=8 \\
& 2 x+5 y=12
\end{aligned}
$$

(5)
(Total for question = 5 marks)

Q6.
Solve this pair of simultaneous equations.

$$
\begin{aligned}
& y=10+x \\
& 2 x-y=5
\end{aligned}
$$

Q7.
Solve the simultaneous equations by substitution method.

$$
\begin{aligned}
& 4 y+8 x=12 \\
& 3 y-5 x=20
\end{aligned}
$$

(5)
(Total for question = 5 marks)

Q8.
Solving simultaneous equationss

$$
\begin{aligned}
& 2 x-3 y=1 \\
& 3 x+2 y=8
\end{aligned}
$$



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