Primes, Factors & Multiples 17 marks			
1.	(a)	Find the Highest Common Factor of 75 and 90.	
	(b)	 Find the Lowest Common Multiple of 75 and 90.	(2)
2.	Find	 the Highest Common Factor of 108 and 180.	(2) (Total 4 marks)

(Total 2 marks)

3. Find the highest common factor of 54 and 72.

.....(Total 2 marks)

Find the highest common factor of 36 and 54. 4.

> (Total 2 marks)

5. p is a prime number not equal to 7

Write down the Highest Common Factor (HCF) of (a)

> $7p^2$ and 49p

> >

x and *y* are different prime numbers.

Write down the Highest Common Factor (HCF) of the two expressions (b) (i)

 x^2y xy^2

.....

Write down the Lowest Common Multiple (LCM) of the two expressions (ii)

 x^2y xy^2

..... (Total 4 marks)

2

(3)

(1)

6. $A = 2^4 \times 3^2 \times 7$ $B = 2^3 \times 3^4 \times 5$

A and B are numbers written as the product of their prime factors.

Find

(i) the highest common factor of *A* and *B*,

(ii) the lowest common multiple of *A* and *B*.

.....

.....

(Total 3 marks)