(1) $f(a, b, c, d) = \prod_M (3, 6, 8, 9, 10) \cdot \prod_D (0, 1, 2, 7)$

(a)

$$f = (b+c)(a+c')(b+d)$$

(b) $f(a, b, c, d, e) = \sum_m (0, 4, 6, 7, 8, 12, 14, 16, 18, 19, 20, 24, 26, 28) +$

$$\sum_D (2, 3, 10, 15, 22, 23, 27, 30)$$

$$f = e' + b'd$$

Now $A \oplus B \oplus AB = A + B$

$\Rightarrow$ $e' \oplus (b'd) \oplus ((e')(b'd))$

thus,