(i) Answer - (b)  
Explanation - 
$$44 = 32 + 8 + 4$$
  
 $= (1 \times 2^5) + (0 \times 2^4) + (1 \times 2^3)$   
 $+(1 \times 2^2) + (0 \times 2^4) + (0 \times 2^9)$ 

- (a) Answer (d) Explanation  $54 = 3 \times 16 + 6 \times 16^{\circ}$ 
  - 3 Answer-(e)  $(36)_{16}$
- answer (a)
- (b) Answer (b)
- 6 Answer- (a)
- 1 Answer-(e)
- (8) Answer-(c)
  Explanation According to precedence of operators, x is evaluated first:

  + and have equal priorties;

  Hence 1+6-2=5
- Answer (a) Explanation -  $(1010111011)_2$ =  $(1 \times 2^0) + (1 \times 2^1) + (0 \times 2^2) + (1 \times 2^3) + (1 \times 2^4)$ +  $(1 \times 2^5) + (0 \times 2^6) + (1 \times 2^7) + (0 \times 2^8) + (1 \times 2^9)$ = 699= 512 + 128 + 56 + 3=  $1 \times 8^3 + 2 \times 8^2 + 7 \times 8^4 + 3 \times 8^9$

= (1273)g

(10) Answer - (b)