SECTION: C

II.	Attempt any two:		
a.	7	2X10=20 p under s is cyclic?	
b.	 (ii). f: (G, +) → (G',*), f(x) = 2^x. Show that f is a homomorphism. (i). Prove that a homomorphism Ø of a group is injective iff kerØ =< e>. (ii). Determine all homomorphism from Z₂₀ to Z₂₀. 	(3)	(7)(6)
c.	(i). Define factor group. Let N Δ G and H< G, containing N. then show that $H/N < 0$ (ii) Draw the Cayley table for $S_3/((123))$.	< G/N. (5)	

