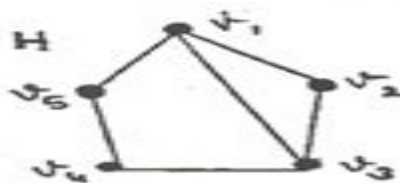
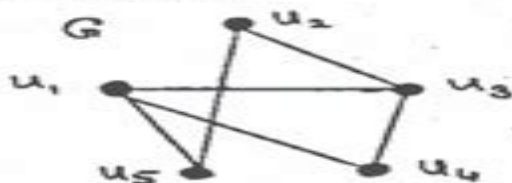


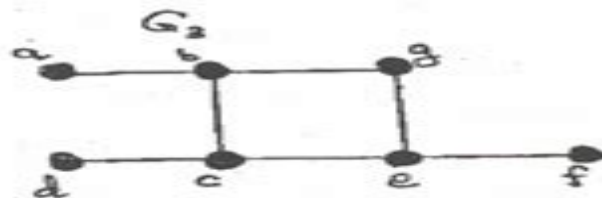
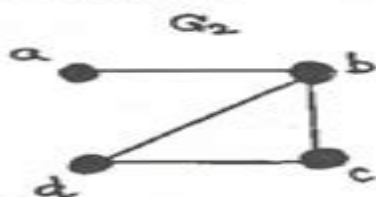
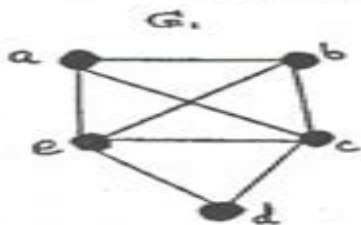
13. (a) (i) Determine whether the following graphs G and H are isomorphic. Give reason. (8)



- (ii) Prove that a given connected graph G is an Euler graph if and only if all the vertices of G are of even degree. (8)

Or

- (b) (i) Prove that a simple graph with  $n$  vertices and  $k$  components cannot have more than  $\frac{(n-k)(n-k+1)}{2}$  edges. (8)
- (ii) Which of the following simple graphs have a Hamilton circuit or, if not, a Hamilton path? (8)



14. (a) (i) Prove that the intersection of any two subgroups of a group  $(G, *)$  is again a subgroup of  $(G, *)$ . (6)
- (ii) State and prove the Lagrange's theorem for group. Is the converse true? (10)

Or

- (b) (i) Prove that every cyclic group is an abelian group. (6)
- (ii) State and prove the fundamental theorem of group homomorphisms. (10)

15. (a) (i) Show that in a lattice if  $a \leq b \leq c$ , then  
 (1)  $a \oplus b = b$  and  $b \oplus c = c$   
 (2)  $(a * b) \oplus (b * c) = b = (a \oplus b) * (a \oplus c)$ . (8)
- (ii) Prove that every chain is a distributive lattice. (8)

Or

- (b) (i) Show that a lattice homomorphism on a Boolean algebra which preserves 0 and 1 is a Boolean homomorphism. (8)
- (ii) In any Boolean algebra, show that  
 $(a + b^1)(b + c^1)(c + a^1) = (a^1 + b)(b^1 + c)(c^1 + a)$ . (8)

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**Marco Cascella**



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