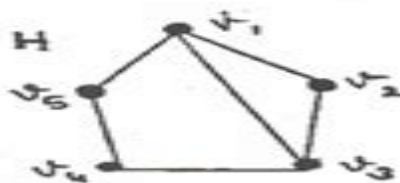
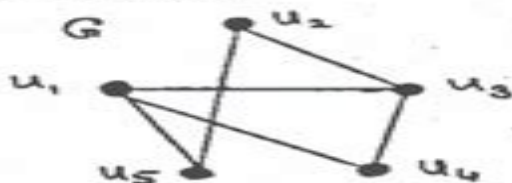


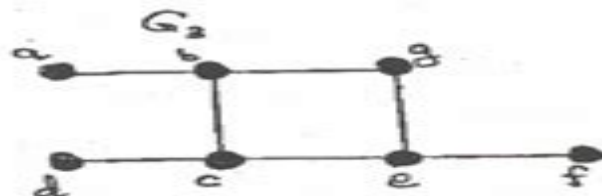
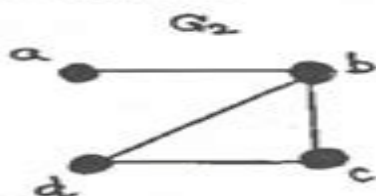
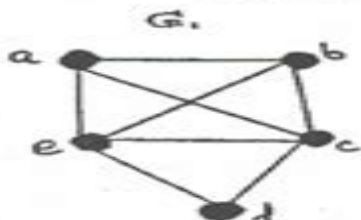
13. (a) (i) Determine whether the following graphs G and H are isomorphic. Give reason. (8)



- (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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Camilla Rothe



Maths Question Paper December 2013:

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