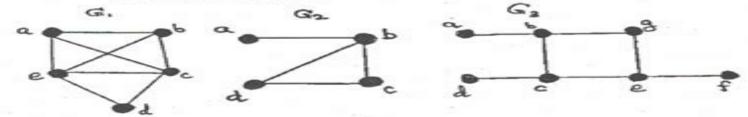
(a) (i) Determine whether the following graphs G and H are isomorphic. Give reason,



- (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)
- (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)



- (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  $a \le b \le c$ , then

  (1)  $a \oplus b = b * c$  and

  (2)  $(a * b) \oplus (b * c) = b = (a \oplus b) * (a \oplus c)$ . (8)
  - (ii) Prove that every chain is a distributive lattice. (8)
  - (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  $(a+b^1)(b+c^1)(c+a^1) = (a^1+b)(b^1+c)(c^1+a). \tag{8}$

# **Maths Question Paper December 2013**

**JL Elias** 

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