1. Description of the introduction of the domain necessary to understand the basic concept of the paper (6 marks).
2. Brief Discussion of the related work discussed by the authors ((3 marks)
3. What is the aim of the paper? What is the problem addressed in the paper? How the paper is different from the previous work as claimed by the authors. (5 marks)
4. Details of the methodology adopted to solve the identified problem. (8 marks)
5. How the authors have provided the evidence to justify their claims. In this  
   section you can discuss the results provided in the paper. (8 marks)
6. Challenges that can be foreseen during the implementation of the paper. (5 marks)
7. Dry run of the technique using a simple input (15 marks)
8. Explain what an **Interval graph** is. Explain what **Maximum Independent Set (MIS)** problem is. Explain what **Maximum Weighted Independent Set (MWIS)** problem is. Explain what **Maximum Weighted K Independent Set (MWKIS)** problem is. Explain what **Maximum Weighted 2 Independent Set (MW2IS)** problem is.
9. Briefly describe this part: \*The authors have discussed how previously Hsiao, Tang and Chang solved the single step graph searching problem by solving the M2IS problem. In [5], Hsu and Tsai solved the two-track assignment problem by solving the M2IS problem on circular arc graphs. In 181, Lou, Sarrafzadeh and Lee solved the maximum 2-chain problem on a given point set, which is the same as the M2IS problem on a permutation graph. In [lo], Sarrafzadeh and Lee proposed the relationship between the M2IS problem and the topological via minimization problem.\*  
   definitely include: Although the MKIS problem is extensively studied in the past (especially for k = 1 or k = 2), most of them solve the problems on unweighted graphs. This paper solves the MKIS problem for k = 2 on weighted graphs (M2WIS problem).
10. MKIS problem was extensively studied (specially for k=1 and k=2) before 1992 but mostly on unweighted graphs. Yannakakis and Gavril (1987) said MWKIS on interval graphs can be polynomially solved in O(n3.5). In this paper a linear MWIS algorithm proposed over which is based the MW2IS algorithm with O(n2) time complexity and O(n2) space complexity.
11. .
12. Show
13. .
14. .