



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_19677
Title of the Manuscript:	Evolution operator of the bipartite orbit of Graphs
Type of the Article	Original Research Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
1. Citations to be given, wherever necessary, to the definitions, concepts and examples taken from other articles. 2. The following are some suggestions to improve the presentation of the paper. Extensive language editing is necessary. Rewriting the article with the help of a language expert is desired. Abstract - The first sentence of Abstract may be replaced by “The operation of substitution consists of replacing a vertex of a graph by another graph. The last sentence of the ~Abstract” is not complete. Some missing words or letters are seen in the sentence. Please see the usage “... the will be used simple and finite graph, ...”. Page-1, Line 8-9, Section-1 Introduction: This sentence is unnecessary because it is standard to represent an edge with end vertices x and y by xy. Page-1, Line 14-19, Section-2.1 Substitution: Citation to the proper literature must be marked here. In line-22, use another operator symbol other than “$+$” as it is commonly used for representing the join of graphs. The iterative definition of substitution graphs M_i, explained in line 23-25 of page 1 may also be rewritten like this. Definition. Let $V(G) = \{v_1, v_2, \dots, v_n\}$ and let $H_1, H_2, \dots, H_n$ be a sequence of pairwise vertex disjoint graphs. Iteratively, we define the following graphs: $M_0 = G$ and $M_{k-1}(v_k, s_k)H_k$, the graph which is obtained by substitution of vertices of G by graphs $H_i, 1 \leq i \leq k$. Line 30 of page 1, may be written as “An edge of the substitution graph M_p is an internal edge.....”. Line 31, may be modified as “..... that not an internal edge is called an external.....” Page 2, line-14, rewrite the sentence as, <i>In this work, we use.....</i> Page 2, line-24, It is written as “See more [3],[5]”. What are these references for? For more examples or for the explanations to the above examples? Mention this clearly in the paper. Same is the case in Page 3, line-19,24. Add relevant explanations in these places also. Line-2 of Page-4: Remove the first sentence as it is redundant.	Corrected. Corrected. Corrected. Corrected. Corrected. Corrected. Corrected. Corrected. Corrected.



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In page-4, For proofs of Lemma 7, Proposition 8, Theorem 9, Lemma 10 and Theorem write your own remarks even if it is an interpretation of the relevant results. These results are not directly proved in [14]. Hence, it does not seem good towrite simply as “See [14]” in the places of proof.

In Page-5, Line-1: Rewrite it as “In this section, we introduce.... and analyse its behaviour. In Line-2, write as “An evolution operator....

In Page-5, Line-10: Correct the sentence as “... are the vertices of a complete bipartite..... It is standard to represent a complete bipartite graph as $K_{r,s}$.

In Page-5, Line-23: You need to begin like “ The orbit .. is said to be complete bipartite

Page-6, Last Line, Here, explain the proof of the result in your own words briefly.

Corrected.

Theorems and propositions mentioned are proved in detail in [14]. Article link is attached: <http://www.scielo.cl/pdf/proy/v20n2/art04.pdf>
See Lemma 3.1, Proposition 3.2, Theorem 3.4

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