SDI Review Form 1.6

Journal Name:	**British Journal of Mathematics & Computer Science**
Manuscript Number:	**2014_BJMCS_10214**
Title of the Manuscript:	**Two-step iterative methods with sixth-order convergence for solving nonlinear equations**
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.
To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Compulsory REVISION comments		
Minor REVISION comments	**1. Page 1, Line 23: Please give the clear expression of "$f: D \subset \rightarrow$". Similar revision must be done on Page 3, Line 98.** **2. Page 2, Line 47-63: The author does not give references of Definition 1-3.** **3. Page 3, Line 109: (13) should be "$f(x_n) = f'(\alpha)(c_1 e_n + c_2 e_n + \cdots)$" and "$c_k = \frac{f^{(k)}(\alpha)}{k!}$"** **4. In the proof of Theorem 1, I think there are some miscalculation, for example, (16) should be "$\frac{f(x_n)}{f'(x_n)} = e_n + (c_2 - 2c_2 c_1)e_n + \cdots$", (17) should be $y_n - \alpha = e_n - \frac{f(x_n)}{f'(x_n)}$, and so on. So please check the proof of Theorem 1 carefully. Or maybe I'm wrong.** **5. In Theorem 1, the authors have already proven**	

	that method (10) has the order of convergence 6. But in the numerical experiments, 10 examples point that method (10) is 5th order. Please explain this strange phenomenon. So I have reason to believe that there is something wrong in the proof of Theorem 1. **6. In references [3-5, 6, 8], "J. Appl. Math. Comput." Should be "Appl. Math. Comput.".**	
Optional/General comments	**In this manuscript, the authors construct three sixth-order iterative methods for solving simple zero of nonlinear equations. The paper contains extensions of the results of [3]-[8]. I think the subject of the manuscript is worth studying. Therefore I recommend acceptance of the manuscript. However, a minor revision is necessary along the lines of above table.**	

Note: Anonymous Reviewer