

ReviewForm1.7

JournalName:	AsianResearchJournal ofMathematics
ManuscriptNumber:	Ms_ARJOM_119464
TitleoftheManuscript:	GENERALSTRUCTUREAND PROPERTIESOFCYCLICCODESINGF(2)

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 an author should write his/her feedback here)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write a few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript need modification and overall correction. ok</p> <p>ok</p> <p>ok In the present state it is not</p> <p>I have given some references this may be added for better understanding.</p> <p>Suggested Corrections</p>	

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1. The Paper in present form is not suitable for publication.
2. Some results are incorrect.
Following are some suggested corrections.
 - i) Page 1, Line 1, Codes in GF(2) should be Codes over GF(2)
 - ii) Page 1, Line 4, Encryption and Decryption should be replaced by encoding and decoding
 - iii) Page 1, Line 22, and digital communications should be digital communications and Quantum computing
 - iv) Page 1, Line 10 from last, investigated spelling is incorrectly written
 - v) Page 2, In statement of Theorem $F_q[x]/x^{n-1}$ should be $F_q[x]/\langle x^{n-1} \rangle$, it should be followed in the entire paper.
 - vi) Page 2, 3, Check GF(2) not GF2
 - vii) Page 4, Generator functions should be generator polynomial.
 - viii) Theorem 5 Must be checked and modified accordingly, $C(x)$ cannot be a generating function. Acyclic code can be associated with generator polynomial/generator matrix not generating function. This theorem should be modified.
 - ix) Check the conclusion GF(2) is incorrectly written as gf2.

In the present form this paper cannot be accepted. To make the work more robust and sound I suggest the author to modify the paper and read the following references and add them in the reference section and do the above suggested corrections.

1. A new construction of quantum codes from quasi-cyclic

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		<p>codes over finite fields. Soumak Biswas and Maheshanand Bhaintwal, Indian Journal of Pure and Applied Mathematics, 54(2), 375-388, 2023.</p> <p>2. On m-spotty weight enumerators of $Z_2(Z_2+uZ_2)$-linear codes and Griesmer type bound, Soumak Biswas and Maheshanand Bhaintwal, Computational and Applied Mathematics, 41(2), 64, 2022.</p> <p>3. On the structure of $Z_2Z_2[u]$-linear and cyclic codes, I. Aydogdu, I. Pathan, Roger Ten-Valls, Finite Fields and their Application, 48, 241-260, 2017.</p> <p>4. On some characterization of quasi-cyclic codes over Z_q, Soumak Biswas, Maheshanand Bhaintwal, Advances in Mathematics of Communications, Online published in December 2023.</p> <p>5. On the structure of linear and cyclic codes over a finite chain ring, G.H. Norton, A. Salagean, Applicable Algebra in engineering, communication and computing, 10, 489-506, 2000.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the articles suitable for scholarly communications?</p>	Average		
<p>Optional/General comments</p>			

PART 2:

	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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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