SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	**Asian Research Journal of Mathematics**
Manuscript Number:	**Ms_ARJOM_119464**
Title of the Manuscript:	**GENERAL STRUCTURE AND PROPERTIES OF CYCLIC CODES IN GF(2)**
Type of Article :	**ORIGNALRESEARCH PAPER**

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	**Authors' response to final evaluator's comments**
1. Include the references mentioned in my last review report. **2. Should not write generating function associated with codes.** **Comments are** **The manuscript need modification and overall correction.** **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]/<x^n-1>, it should be followed in the entire paper.** **vi) Page 2, 3, Check GF(2) not GF2** **vii) Page 4, Generator function should be generator polynomial.** **viii) Theorem 5 Must be checked and modified accordingly, C(x) cannot be a generating function. A cyclic code can is 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 codes over finite fields. Soumak Biswas and Maheshanand Bhaintwal, Indian Journal of Pure and Applied Mathematics, 54(2), 375-388, 2023.** **2. On m-spotty weight enumerators of Z2(Z2+uZ2)-linear codes and Griesmer type bound, Soumak Biswas and Maheshanand Bhaintwal, Computational and Applied Mathematics, 41(2), 64, 2022.**	

3. **On the structure of Z2Z2[u]/<u3>-linear and cyclic codes, I. Aydogdu, I. Pathan, Roger Ten-Valls, Finite Fields and their Application, 48, 241-260, 2017.** 4. **On Some characterization of quasi-cyclic codes over Zq, Soumak Biswas, Maheshanand Bhaintwal, Advances in Mathematics of Communications, Online published in December 2023.** 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,** **2. 10, 489-506,2000.**	

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