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3.3.2 Number of research papers per teachers in the Journals notified on UGC website /Scopus Indexed/ Web of Science/Others during the last five years

Consolidated number of Research Papers from 2016-21

Sl.No.	Year	Total number of Research papers
1	2016-17	26
2	2017-18	24
3	2018-19	22
4	2019-20	30
5	2020-21	26




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3.3.2

2018-19




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List of Research Papers during 2018-19

Sl. No.	Title of the Paper	Name of the authors	Department	Name of the journal	Link to the paper
1	Transition Towards Cashless Economy : A Study on the Perceptions and Expectations of People of Kottayam district.	Dr.Manoj Narayanan K S	Commerce	Journal of Emerging Technologies and Innovative Research (JETIR)	http://www.jetir.org/papers/JETIRA006185.pdf
2	A Study on the Impact of Evangelism marketing on Consumer Buying Behaviour with Special Reference to Kottayam District	Resmi Annie Thomas	Commerce	Journal of Emerging Technologies and Innovative Research (JETIR)	https://www.jetir.org/papers/JETIR1808751.pdf
3	Automation and job losses in India	Dr.Raju John	Economics	Manpower Journal	http://iamrindia.gov.in/writer/eaddata/UploadFile/Raju%20John.pdf
4	The Driving Factors of Life Insurance Sector in India: A Study with Special Reference to Selected Life Insurers in India	Dr.Shaju MJ	Economics	The Online International Interdisciplinary Research Journal	http://www.oijr.org/oijr/sept2018-special-issue(01)/06.pdf
5	Translation of UNNI. R's story " The Ghost"	Dr. Jyothimol P.	English	Journal of Literature and Aesthetics	https://www.ijraset.com/
6	Translation of Unni. Rs Story "The Sin of God"	Dr. Jyothimol P.	English	Writers, Editors, Critics	https://drive.google.com/file/d/1-ZiQAc6GMRSz_C7mLYAQqk1avuM3CyfQ/view
7	The Charm and Charisma of Celluloid: A Mise-en-scene Analysis of the film Pride and Prejudice"	Dr.Vidya Merlin Varghese	English	IJRHAL	http://www.impactjournals.us/archives?jname=11_2&year=2018&submit=Search&page=21
8	A Cultural Reading of the Film and Fiction Versions of Jane Austen's Pride and Prejudice"	Dr.Vidya Merlin Varghese	English	IJRHAL	http://www.impactjournals.us/archives?jname=11_2&year=2018&submit=Search&page=31
9	Gandhi and Christianity- His attitude towards Conversion	Fr.Dr.Thomson Roby	History	Journal of Emerging Technologies and Innovative Research (JETIR)	https://www.jetir.org/?gclid=EAlaIqObChMIjftqdKI8AIVzRwrCh2F_ADIEAAYASAAEgKJjPD_BwE




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10	Thermal diffusivity control in titanium dioxide nanofluid through phase tuning	Dr.Misha Hari	Physics	Material Research Express	https://doi.org/10.1088/2053-1591/aab41d
11	Eu 3+ activated terbium oxalate nanocrystals: A novel Luminescent material with delayed concentration quenching and tunable multicolour emission	Dr. Linju Ann Jacom	Physics	Optic Materials	https://www.sciencedirect.com/journal/optical-materials/vol/86/suppl/C
12	An Evaluation of Farmers Perception on Agricultural Commodity Derivatives	Dr.Manoj Narayanan K S	Commerce	International Journal of Research and Analytical Reviews(IJRAR)	http://doi.org/10.1729/Journal.20828
13	Consumer Preference for OLX: The Drivers and Dampeners	Tissy Eruthickal	Commerce	International Journal of Research and Analytical Reviews(IJRAR)	http://ijrar.org/papers/IJRAR19J1293.pdf
14	Effectiveness of Skill Development Through Additional Skill Acquisition Programme	Dr. Manoj Narayanan K S	Commerce	International Journal of Research and Analytical Reviews(IJRAR)	http://ijrar.org/papers/IJRAR19J1797.pdf
15	Speaking Pictures: A Narratological Analysis of Marjane Satrapi's Graphic Memoir, Persepolis	Meera Elizabeth James	English	International Journal of Research and Analytical Reviews(IJRAR)	http://ijrar.org/papers/IJRAR19J3306.pdf
16	Fibonacci Product Cordial Graphs	Tessymol Abraham	Mathematics	Journal of Emerging Technologies and Innovative Research (JETIR)	https://www.jetir.org/papers/JETIR1901808.pdf
17	Fibonacci Product Cordial Labelling of some Graphs	Tessymol Abraham	Mathematics	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	http://doi.org/10.22214/ijraset.2019.3442
18	Pharmacological application of the thermal lens technique: a thermal diffusivity study	Dr. Misha Hari	Physics	Journal of the Optical Society of America B	https://opg.optica.org/josab/abstract.cfm?uri=josab-35-7-1662#:~:text=The%20study%20found%20that%20concentration,of%20the%20drug%20is%20monitored.



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19	Christian Apologists-Defenders of Christianity	Fr.Dr.Thomson Roby	History	International Journal of Research and Analytical Reviews(IJRAR)	Link to the article is not available
20	Some New Families of Fibonacci Product Cordial Graphs	Tessymol Abraham	Mathematics	Universal Review	Link to the article is not available
21	"Techno Poetics"	Dr. Jyothimol P.	English	IJELLH	Link to the article is not available
22	Emerging Oneness in Being: Third Space in Shyam Selvadurai's Funny Boy	Anju John	English	International Journal of Research and Analytical Reviews(IJRAR)	Link to the article is not available



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Supporting documents of Research Papers
without hyperlink to journals



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Christian Apologists - The Real Defenders of Christianity during the Roman Persecution of 2nd and 3rd centuries

(Fr. Dr. Thomson Robi, Asst. Professor, Dept. of History, Baselius College, Kottayam, Kerala)

ABSTRACT

It was during the second century that there arose a new defender of the faith; the Apologist. The Apologists were a group of the early church fathers who defended Christianity from the false charges of the state and the pagan people. They were learned scholars and philosophers and usually were converts from a non-Christian's background. Under the persecution in the first three centuries, Christian community lived under the threat of the Roman rulers and the heretical teachings. Their main work was to write to the emperor and rulers to convince them that the Christians did not deserve persecution and to prove the innocence of the Christians. With the literary activities of the apologists Christianity became more powerful in the midst of severe persecution. Their importance for us is that through their writings the church's attitude became clearer in the present days also. Their writings are valuable mines of information for the early development of the church during the time of the persecution. An attempt would be made in this study to examine the Christian Apologists and Christian writers during the first three centuries and their contributions, especially in relation to Gnosticism, Montanism etc.

Introduction

It was during the second century that there arose a new defender of the faith; the Apologist.¹ They were learned scholars and philosophers and usually were converts from a non-Christian's background. Under the persecution in the first three centuries, Christian community lived under the threat of the Roman rulers. Their main work was to write to the emperor and rulers to convince them that the Christians did not deserve persecution and to prove the innocence of the Christians. The word 'apology' comes from the Greek word 'apologia' means 'a speech for the defense'² especially a defense made by an accused person in the law court. The authors of these apologetic writing are collectively known as the Apologists; and though writings of this type were produced long after the close of the second century, the period from 130 to about 180 A.D. is frequently referred as the age of the Apologists. Further, aggressive polemicists began to produce writings that attacked God's revealed religion. To counter these problems, the Fathers responded in speech and print. The defense of Christianity by the written word began with Aristides and Quadratus and was continued from then onwards by the likes of Justin, Irenaeus, Athenagoras, Origen etc. An attempt would be made in this study to examine the Christian Apologists and Christian writers during the first three centuries and their contributions, especially in relation to Gnosticism, Montanism etc.


1. Major Heresies and their Teaching.

As the church struggled to define her doctrine there arose many heretical teachings like Gnosticism, Montanism, Manicheanism etc. It cannot really be called heresies because they did not emerge from Christian groups. But they resembled Christian teachings on many points, used many Christian terms and confused the minds of many people. As the leaders of the church grappled with the heretical teachings, the need for a clear formulation of true doctrine was felt and so credal statements developed.

¹ The Apologists were a group of the early church fathers who defended Christianity from the false charges of the state and the pagan people.

² William Walker, *A History of the Christian Church*, (T&T Clark, Edinburgh, 1986) .p.82f




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SOME NEW FAMILIES OF FIBONACCI PRODUCT CORDIAL GRAPHS

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Abstract

An injective function $\varphi: V(G) \rightarrow \{F_1, F_2, \dots, F_n\}$, where F_j is the j^{th} Fibonacci number ($j = 1, \dots, n$), is said to be Fibonacci product cordial labeling if the induced function $\varphi^*: E(G) \rightarrow \{0, 1\}$ defined by $\varphi^*(uv) = \varphi(u)\varphi(v) \bmod 2$ satisfies the condition $|e_{\varphi^*}(0) - e_{\varphi^*}(1)| \leq 1$. A graph which admits Fibonacci product cordial labeling is called Fibonacci product cordial graph. In this paper we investigated the Fibonacci product cordial labeling of the graph obtained by joining two copies of Shell graph S_n by a path of arbitrary length, Mongolian tent, Bistar and Twig.

Keywords: Fibonacci Product Cordial Labeling; Fibonacci Product Cordial graph, Mongolian Tent, Bistar, Twig

1. Introduction

Graph labeling is an assignment of integers to the vertices or edges or both subject to certain conditions. More number of labeling techniques found their starting point from graceful labeling introduced by Rosa [5]. Later in 2016, Rokad A.K. and G.V. Ghodasara introduced Fibonacci cordial labeling [4]. Also Tessymol Abraham and Shiny Jose introduced Fibonacci product cordial labeling and studied its properties [6].

All graphs in this paper are simple, finite and undirected. Some basic definitions and concepts are taken from Frank Harary [3]. In this paper we investigated Fibonacci Product Cordial Labeling of the graph obtained by joining two copies of Shell graph S_n by a path of arbitrary length, Mongolian tent, Bistar and Twig.

Notations:

$v_{\varphi}(0)$: Number of vertices with label 0 under the map φ

$v_{\varphi}(1)$: Number of vertices with label 1 under the map φ

$e_{\varphi^*}(0)$: Number of edges with label 0 under the map φ^*

$e_{\varphi^*}(1)$: Number of edges with label 1 under the map φ^*

FPCL: Fibonacci product cordial labeling

2. Preliminaries

2.1. Fibonacci Product Cordial Labeling [6]

An injective function $\varphi: V(G) \rightarrow \{F_1, F_2, F_3, \dots, F_n\}$ where F_j is the j^{th} Fibonacci number ($j = 1, \dots, n$), is said to be Fibonacci product cordial labeling if the induced function $\varphi^*: E(G) \rightarrow \{0, 1\}$ defined by $\varphi^*(uv) = \varphi(u)\varphi(v) \bmod 2$ satisfies the condition $|e_{\varphi^*}(0) - e_{\varphi^*}(1)| \leq 1$.



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Techno Poetics: Reading Cyberpunk Poems

The paper is an attempt to make sense of the topos in which cyberpunk poetry exists. It is an attempt to unearth the major characteristics, themes and images of cyberpunk poetry especially with reference to its major practitioner Edwin Morgan. Cyberpunk poetry is a paradox as the concept of poetry as is commonly understood is subjected to severe reversal in the cyberpunk realm. Cyberpunk emerges from the interface between man and machine in a realm in which the human is subjected to machinations. Many changes have been wrought in the poetic scenario by the concretization of images and introduction of the rationale of science into the fluidity of poetry in this postmodern age. Edwin Morgan is a Scottish poet whose poetry reveals the influence of science and technology in altering the creative spark rendering technical and concrete while requiring to maintain the fluidity of poetry.

Cyberpunk originates when typical science fictions are modified to accommodate the multiple landscapes of the postmodern technology that thrives in offering futuristic worlds inhabited by futuristic beings combining the intelligence of humans with the tools of technology. The term as such was coined by Bruce Bethke as the title of a short story which he published in the Amazing Science Fiction Stories magazine in 1983. But later on the term came to be applied to advanced science fiction written by writers like William Gibson, Pat Cadigan etc. Gibson's The Necromancer became one of the early examples of full-fledged cyberpunk fiction. The way Information Technology has been inducted into human life and



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EMERGING ONENESS IN BEING: THIRD SPACE IN SHYAM SELVADURAI'S *FUNNY BOY*

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Gender identity is something that creates a space for an individual in the society. The individual assumes either masculine or feminine role on the basis of this identity. The normal social conventions of a society expects male to express masculine actions and female to express feminine actions. The socially constructed stereotypical role follows one like a stigma, from which one is unable to save oneself. Therefore those who cannot relate to or perform the two normative roles has to create a third space to assert their marginalized presence. Set in a turbulent socio-political context in Sri Lanka, Shyam Sevadurai's *Funny Boy* responds to the need for a space for the third gender and explores the interrelations of colonialism, racism and queer identity. Placed amidst these continuities and controversies, this paper enquires into the way in which the third gender announces their queer presence and asserts their identity in a third space as called by Homi Bhabha. Rutherford expounds how Homi Bhabha illustrates the idea of a third space as a space "which enables other positions to emerge" and continues to say that "it displaces the histories that constitute it and set up new structures of authority, new political initiatives, which are inadequately understood through received wisdom" (211).

Funny Boy is a coming of age novel in which the protagonist, Arjuna progresses to the realization of his sexual identity at a time and place strained with serious ethnic tensions between Sinhalese and Tamil. The novel also becomes a clear explication of the Tamil diaspora where Arjie's family is victimized being a Tamil in Sri Lanka and has to migrate to Canada to evade further repercussions. The paper intends to explore the subjective spatialization of the gendered consciousness of the protagonist and how the third space is manifested through various instances and interactions in Arjie's life. This space cannot be limited to the personal realm alone as the character undergoes the confounded realizations of his homosexual identity amidst turbulent ethnic violence when Arjie's Tamil family are forced out of their 'home'. So home if I can call it the 'first space' is distant to the character at both personal and political levels. 'Home' becomes an ephemeral space for Arjie and his family. It is when you move away from home, the queer consciousness takes form in Arjie. The queer essence manifests itself in Arjie when he realizes that he has to move away from Soya and from Sri Lanka itself.

Arjie, at the beginning of the novel is depicted a curious onlooker of feminine activities and likes to watch his mother getting ready. At the spend-the-days at his grandparents' house, Arjie likes to participate in girl-games rather than boy-games. Arjie and all the girl cousins create an elaborate pretend wedding which they call "bride-ride" in which Arjie plays the role of bride. Thus the girls' paradise at their



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