

K. K. Das College

GRH – 17, Baishnabghata – Patuli

Kolkata – 700084

West Bengal

India



3.3.1

UGC Approved/Care Publications



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3.3.1

Number of papers published in the Journals notified on UGC website during last five years

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Dr. Ramkrishna Prasad Chakraborty
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List of UGC Approved/ Care Journal Publication

Sl. No.	Title of paper	Name of the author/s	Department	Name of journal	Year of publication
1	Padmanadir Majhir Path Bishlotione Karokatter Proyog	Anunoy Chatterjee	Bengali	Alochana Chakra	2018
2	Status of Women in Higher Education in 21st Century India	Dr. Rajyasri Niogy & Shumonika Gangoly	Economics	Education, Research and Analysis	2018
3	Demistifying History: a Postmodern Study of Graham Swift's Waterland	Animesh Bag	English	Education, Research and Analysis	2018
4	Transmission of Memory: Impact of Oral History on Postmemorial Partition Friction	Soumana Biswas	English	Education, Research & Analysis, An International Refereed Interdisciplinary Journal	2018
5	Culture of Practicing Motherhood: A Sociological Study in Rural Bengal	Bidya Ratan Tikader	Sociology	Edu World	2018
6	Sociology of Culture: A Study on Achipur	Bidya Ratan Tikader	Sociology	SHINJAN	2018




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Sl. No.	Title of paper	Name of the author/s	Department	Name of journal	Year of publication
7	The Untouchability Debate between Ambedkar and Gandhi: A Critical Analysis	Bidya Ratan Tikader	Sociology	International Journal in Multidisciplinary and Academic Research (SSIJMAR)	2018
8	Partition From a Child's Perspective in Irfan Master's A Beautiful Lie	Soumana Biswas	English	New Academia: An International Journal of English Language, Literature and Literary Theory	2019
9	A New Modified Linear Search Algorithm	Mridul Kanti Bhaumik	Computer Science	International Journal of Mathematics Trends and Technology (IJMTT) - Volume 65 Issue 12 - Dec 2019	2019
10	Mathematics Phobia Achievement Among XI Grade Secondary School Students: A Case Study	Bapi Kumar Sardar	Education	Studies in Indian Place Names	2020
11	Fillmore-er karakvabnar ruprekha	Anunoy Chatterjee	Bengali	Ebong Mahua	2021




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Sl. No.	Title of paper	Name of the author/s	Department	Name of journal	Year of publication
12	Sibram Chakraborty-r gadye pun-prasongo	Anunoy Chatterjee	Bengali	Ebong Mahua	2021
13	Swami Vivekanander Samajtrantik Vabna: Ekti Mulyayaner Sondhane	Bidya Ratan Tikeder	Sociology	Ebong Mahua	2021
14	Like a Tangerine: Despair, Death, and the Poetic Self in Jibanananda Das's Select Poems	Animesh Bag	English	Dibrugarh University Journal of English Studies	2022
15	Torsional Impact of Homogeneous Layer Bonded to An Elastic Non-Homogeneous Half-Space	Nasima Munshi	Mathematics	Stochastic Modelling and Applications	2022
16	Orientalist Prodigy and Post-Colonial Plight: The Works of Colin Mackenzie (1754-1821)	Deblina Biswas	History	Journal of the Asiatic Society	2023
17	Writing of History on the Prostitutes; Women in the Margins	Sreyashi Sarkar	History	Education and Society Since 1977	2023
18	Attitudes of the Bengali Gentry Towards the Prostitutes of Bengal	Sreyashi Sarkar	History	Madhya Bharati	2023
19	Optimality and Duality Results for (h, φ) -Nondifferentiable Multiobjective Programming Problems with (h, φ) - (h, F, ρ) -Convex Functions	Mohan Bir Subba	Mathematics	FILOMAT	2022



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ISSN 2231 3990

আলোচনা চক্র

৩২ বর্ষ ২য় সংখ্যা সংকলন ৪৫ অগস্ট ২০১৮

বর্তমানের পত্রিকাখনায় কটাকা জিলায় বাসায় চমার উদ্যান যোগে কাঙাল মালসার মনোরঞ্জন ব্যাপারী সুবিমল মিত্রের
অনুগ্রহে অর্থেষে সুকুমার সৌম্যের বাক্য কথিতা আখ্যান বানান পুরানো মাখরতুলি দ্বীপক্রমাণে শিশু সর্গিত
পস্থানদীর্ঘ মাকি স্বাধীনতা নারী আলোচনের ঘরের দুলাল কবিতার শৈলী সম্বন্ধে অতি ১ সাক্ষর সাক্ষর
দর্শনে ভাব বিভব কল্পকহিনি কর্তাবিনয় চিত্রার পক্ষে ভ্রম মানুষের ভ্রম

স্বীকৃত
কাদম্বরী ও জীবনদেবতা তপোপ্রভা যোগ

প্রসঙ্গ : সুবিমল মিত্র
সুবিমল মিত্র অনুবাদ 'তি রামবানী'
অন্যে অর্থেষে জনম মুখার্জী

বিবিধ ভাষা-সম্পর্ক
সুকুমার রায় ভাষাচিন্তা দেবকুমার সাহা
বাংলা/টা/-এর ভূমিকা দেবারতি জানা

পুস্তক আলোচনা
আখ্যান বয়ন অরণ্য যোগ
পুরানো আখরতুলি সন্দীপ মুখোপাধ্যায়

ক্রোড়পত্র ১ ১। সাহিত্যের ভাষা ও ভাষাতত্ত্ব
সম্পাদনা ১। প্রবাল দাশগুপ্ত
কৃষ্ণা ভট্টাচার্য সর্গীর কর্মকার
অনুন্নয় চট্টোপাধ্যায় রিমি যোগ দর্শিতার
অনীতা বন্দ্যোপাধ্যায়
অভিজিৎ মজুমদার

ক্রোড়পত্র ২ ২। কমিউনিকেশন—তত্ত্ব ও ভাবন
সম্পাদনা ১। শিবাংশু মুখোপাধ্যায়
অমিতা চ্যাটার্জী প্রবাল দাশগুপ্ত
গঙ্গাধর কর নির্মাণ্য নারায়ণ চক্রবর্তী
কুমার মিত্র শিবাশিতা মুখোপাধ্যায়
শিবাংশু মুখোপাধ্যায়

নির্বাচিত কথাকার : অনেকান্ত আলোচনা
রবিশংকর বল শান্তনু সরকার রাধের বন্দ্যোপাধ্যায় অতীত চট্টোপাধ্যায়
সুবিমল মিত্র শরৎ সেন উদয়ন যোগ অর্পণ সাহা নবরঞ্জন ভট্টাচার্য
দিব্যরত্ন মজুমদার মনোরঞ্জন ব্যাপারী সর্গিত সেনগুপ্ত

সম্পাদক চিরঞ্জীব শুর

পস্থানদীর্ঘ মাখি-র পাঠ বিশ্লেষণে কারকতত্ত্বের প্রয়োগ অনুন্নয় চট্টোপাধ্যায়

সুবিমল মিত্রের ভাষাতত্ত্বিক সমালোচনা তথা সাহিত্যতত্ত্বের সঙ্গে ভাষাতত্ত্বের সমন্বয় সাধনের
প্রচেষ্টা পত্রিকা-প্রাচীন। বিশ শতকের গোড়ার দিকেই ভাষাতত্ত্বের আলোচনা পরিসরে কবিতার ভাষা
নির্ভর করে নিয়ে ইচ্ছাকবসন প্রমুখ তাত্ত্বিকেরা চিন্তাভাবনা শুরু করেন। শুধুমাত্র
পরিবেশিক ভাষাবিজ্ঞানের অংশ হিসেবে নয়, স্বতন্ত্র শাখা হিসেবে ক্রমশ মাথা তুলে দাঁড়াতে
শুরু করেন। পঞ্চদশ-ষোল্লের দশক জুড়ে মার্কিন যুক্তরাষ্ট্রে এ বিষয়ে এককিছু আন্তর্জাতিক
সংলগ্ন অনুষ্ঠিত হতে থাকে। শুধু কবিতার ভাষা নয়, আখ্যানমূলক গদ্যসাহিত্যের
সংলগ্ন ভাষাতত্ত্বিক অনুসন্ধান আরম্ভ হয়। বিচারিত, প্রমুখন, সমান্তরালতা কিংবা
সংলগ্ন-ই নির্ভিখে সাহিত্যের ভাষা-নির্ভর বিশ্লেষণ আমরা ইতিমধ্যে প্রচুর করেছি। কিন্তু
বর্তমান প্রবন্ধে ভাষাতত্ত্বিক সমালোচনার ক্ষেত্রে আমরা একটি অভিনব তাত্ত্বিক প্রয়োগ নিয়ে
বিশিষ্ট বাণবিত্তার করতে চাইছি। আর তা হল, সাহিত্যিক পাঠের বিশ্লেষণে কারকতত্ত্ব (case
theory)-এর প্রয়োগ। এক্ষেত্রে মানিক বন্দ্যোপাধ্যায়ের জনপ্রিয়তম উপন্যাস 'পস্থানদীর্ঘ
মাখি'-কে বেছে নেওয়া হয়েছে আলোচনার জন্য। উপন্যাসটির পাঠ-বিশ্লেষণের দৃশ্য
আলোচনা শুরু করার আগে কারকতত্ত্ব ও তার প্রয়োগ সম্পর্কে বানিক বলে নেওয়া প্রয়োজন।
আধুনিক কারকতত্ত্ব তার বিকাশের সঙ্গে সঙ্গে বর্তমান (syntax)-এর বদলে বাগর্থ
(semantics)-এর আওতাভুক্ত হতে থাকে, ততই তা ভাষা-নিরপেক্ষ হয়ে উঠতে থাকে
কেনও ব্যাকরণের আরওমেন্ট-প্রেক্ষিতে সম্পর্কই যে কারকের ভিত্তি ভাষাতত্ত্বিকেরা তা
আমাদের জানিয়েছেন। আর যে কোনও ভাষার ক্ষেত্রেই এই সম্পর্ক নির্ধারিত হয় ব্যাকরণ
অংশের (deep structure)-এ। কারক বর্তই ম্যাসোয়েজ ইউনিভার্সাল-এর বিধর হয়ে
উঠতে থাকে, ভাষাতত্ত্বিকদের কাছে ততই গুরুত্বপূর্ণ হয়ে উঠতে থাকে কারকতত্ত্বের প্রয়োগের
নিকট। কারকতত্ত্বের প্রয়োগের কথা প্রথম বলেন জন এক. সোয়া। পরবর্তীকালে অনুবান য.
অন্যায় ক্ষেত্রে কারকতত্ত্বের প্রয়োগের কথা বলেন কেট কেট। কিন্তু কোনও সাহিত্যিক
পাঠের বিশ্লেষণে যে কারক-কে কাজে লাগানো যায়, সে-কথা প্রথম জানান মার্কিন
ভাষাতত্ত্বিক ওয়াশিংটন ফুল। তিনি মনে করেন, তাঁর কারকতত্ত্বের মেট্রিক মডেল কোনও পাঠ
(text)-এর বাগর্থ-প্রসঙ্গ (semantic context)-কে বিশ্লেষণ করতে পারবে। ফুলের এই
প্রয়োগমূলক তত্ত্বের বিজ্ঞানিত ব্যাখ্যায় বাওয়ার সুযোগ আমাদের নেই। আমরা শুধু কারকতত্ত্বের
সাধারণ মানিক বন্দ্যোপাধ্যায়ের 'পস্থানদীর্ঘ মাখি' উপন্যাসটির বাক্য-বিশ্লেষণের আগে
মেট্রিক মডেল-এর প্রধান কয়েকটি বিষয় সংক্ষেপে আলোচনা করে নেব।

২
ওয়াশিংটন ফুল ছিলেন (১৯২২-১৯৯৯) ওয়াশিংটনের ডকটরটন বিশ্ববিদ্যালয়ের
ভাষাতত্ত্বের এমেরিটাস প্রফেসর। সেখানে ভাষাতত্ত্ব বিষয়ক বিভিন্ন আন্তর্জাতিক
১৬৯




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'এবং মতুয়া' - বিশ্ববিদ্যালয় মঞ্জুরী আয়োগ (UGC-CARE)
অনুমোদিত তালিকার অন্তর্ভুক্ত।
২০২০সালে প্রকাশিত ৮৩পৃ. তালিকার ৩০ পৃ. এবং ৮৪পৃ. উল্লিখিত।

এবং মতুয়া

(বাংলা ভাষা, সাহিত্য ও পদ্যলেখার মাসিক পত্রিকা)

২৩তম বর্ষ, ১৩৩ সংখ্যা

মে, ২০২১

সম্পাদক

ড. মদনমোহন বেরা

সহসম্পাদক

পারেল দাস বেরা

সৌমিত্রা দত্ত বেরা

যোগাযোগ :

ড. মদনমোহন বেরা, সম্পাদক।

গোলকুয়াচক, পোস্ট-মেদিনীপুর, ৭২১১০১, জেলা-প. মেদিনীপুর, প. বঙ্গ।

মো.-৯১৫০১৭৭৬৫০

কে. কে. প্রকাশন

গোলকুয়াচক, মেদিনীপুর, পশ্চিমবঙ্গ।

ফিলমোরের কারকভাবনার রূপরেখা

অনুনয় চট্টোপাধ্যায়

সারসংক্ষেপ :

এই নিবন্ধে আমরা ফিলমোরের কারকভাবনার মূলকথাটি তুলে ধরতে চেষ্টা করি।
অধোদানের উপর ভিত্তি করে মূলত ব্যাংগ-নির্ভর ও ভাষা-নির্ভর এই কারকভাবনা
থেকে উঠেছে। এই নিবন্ধে ফিলমোরের বিভিন্ন সময়ের ত্রুটিভিত্তিক ভাবনার কালের কথা
করে পদ্যপানি আমাদের বিবেচনার সে-তত্ত্বের মূল্যায়নেরও চেষ্টা করা হয়েছে।

পদ্যপানি :

কারক, কেস, ব্যাংগ, অধোদান, ভাষা।

'The case for case' (Fillmore, 1968) প্রবন্ধের মাধ্যমে চালসি ফিলমোরের কারকভাবনার
মূলকথার পর পাঠ্যভাষার ভাষাতত্ত্বের ভিত্তিতে এক আলোচনা সৃষ্টি হয়। অনেকেরই উঁচু
হওয়ার বিরোধিতা করেন। তবে পক্ষে যেক বা বিপক্ষে, ফিলমোরের এই নব্যকারকতত্ত্বকে
ইঙ্গিত করতে পারেননি কেউই। ফিলমোরের ১৯৭১-এ নিজের তত্ত্বের বেশ কিছু
সীমাবদ্ধতার কথা বলেন। ১৯৭৭-এ ফের তিনি পরিবর্তিত কারকভাবনার প্রস্তাব
করেন। যদিও পাঠ্যভাষা কেস এবং প্রত্যয় কারক পুরো এক নয়, তবু এ-লেখায় ফিলমোরের
'কেস'-কে আশ্রিত 'কারক' নিয়ে বোঝানো হয়েছে।

(১) ১৯৬৮-র তত্ত্ব :

তত্ত্বোচনার একেবারে প্রারম্ভে ফিলমোর ভাবার নির্বিশেষত্ব প্রদর্শন করেছেন।
কেন। উঁচু প্রবন্ধের প্রস্তাবিত অধোদানের কারক আধুনিক নির্বিশেষত্ব-কে ব্যাখ্যা করতে
পারবে একটা জিনিসে দেন তিনি। পূর্বসূরীদের কারকভাবনার বঁধ তুলে ধরার ক্ষেত্রে
ফিলমোর প্রথম জ্ঞান, গ্রিক ও লাতিন কারক কাঠামোতে অন্যান্য ভাষার জন্য সার্বজনীন
হিসেবে তুলে ধরার গল্প। কেস-এর শ্রেণিবিশিষ্টতা ও ব্যাখ্যায় গোপনীয় ছিল। সাম্প্রতিক
যুগের পদ্যপানি-এর ধারণা দিয়েই কেস-কে ব্যাখ্যা করা হতে পারে। সাবজেক্ট-ফিয়ার
স্বত্ব স্বাধীনতায় তফাৎটা আগে দেখা হত।

নিজের তত্ত্বের অবতারণা করতে গিয়ে ফিলমোর গুরুত্ব দিয়েছেন অধো-
দানের এবং কারকের সূত্র শ্রেণির উপর। তিনি কারকের অর্থকে কেসে রেখে সেখান
থেকে উঠে আসা বিভিন্ন উপাদানকে দেখার পক্ষপাতী, শব্দ বা পদকে কেসে রেখে
কেসে দেখার বদলে। কারক-শ্রেণির যে-অর্থ কারকের অর্থকর্তমায় বিদ্যমান তাকে গুরুত্ব
দিত্তে চেষ্টা করেন তিনি। সাবজেক্ট-অবজেক্ট শ্রেণি ফিলমোরের মতে অধিগঠনের বিষয়,

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।।। এবং মতুয়া - মে, ২০২১

'এবং মতুয়া' - বিশ্ববিদ্যালয় মঞ্জুরী আয়োগ (UGC-CARE list-I 2021)
অনুমোদিত তালিকার অন্তর্ভুক্ত।
২০২১সালে প্রকাশিত ১৬পৃ. তালিকা (০১৯টির মধ্যে) ০ পৃ. ৬০নং উল্লিখিত।

এবং মতুয়া

(বাংলা ভাষা, সাহিত্য ও পদ্যলেখার মাসিক পত্রিকা)

২৩তম বর্ষ, ১৩৮ সংখ্যা

সেপ্টেম্বর, ২০২১

সম্পাদক

ড. মদনমোহন বেরা

সহসম্পাদক

পারেল দাস বেরা

সৌমিত্রা দত্ত বেরা

যোগাযোগ :

ড. মদনমোহন বেরা, সম্পাদক।

গোলকুয়াচক, পোস্ট-মেদিনীপুর, ৭২১১০১, জেলা-প. মেদিনীপুর, প. বঙ্গ।

মো.-৯১৫০১৭৭৬৫০

কে. কে. প্রকাশন

গোলকুয়াচক, মেদিনীপুর, পশ্চিমবঙ্গ।

শিবরাম চক্রবর্তীর গদ্যের pun-প্রসঙ্গ

অনুনয় চট্টোপাধ্যায়

সারসংক্ষেপ :

বর্তমান প্রবন্ধে শিবরাম চক্রবর্তীর রচনায় pun প্রয়োগের প্রসঙ্গটি আলোচিত
হবে। সাহিত্যের শৈলী বা ভাষানির্ভর বিরোধের ক্ষেত্রে শব্দ ব্যবহারের এই বিশেষ
সিদ্ধান্ত গুরুত্ব আলোচিত হবে। pun-এর উদ্ভব বা প্রকারের কথা বলে শিবরামের
একটি গদ্য থেকে দুইটি নিয়ে বিষয়টি বিশ্লেষণের চেষ্টা করা হবে।

শব্দ সূত্র :

শিবরাম, pun, ধ্বনি, শব্দ।

প্রতিপাদ্য বিষয় :

আমরা তো জানি ভাষা একটা বিমূর্ত ধারণা মাত্র। বিবিধ বৈচিত্র্যের মধ্য দিয়ে
সে সৃষ্টি হয়ে ওঠে। কোনো লিখিত বস্তুতে ভাষা বিশ্লেষণ মানে প্রধানত তার ধ্বনি,
শব্দ আর বাক্য নিয়ে আলোচনা করা। 'কী লেখা হয়েছে' বা লেখার 'কনটেন্ট'-
এর কালে 'কেমন ভাবে লেখা হয়েছে' বা লেখার 'স্টাইল' নিয়ে কথা বলতে গেলেই
আমরা ভাবার প্রসঙ্গ। শিবরামের লেখার সামগ্রিক ভাষা ব্যবহার নিয়ে কথা বলতে
নিতে সাক্ষ্যই শুধু বলে থাকেন, তিনি pun প্রয়োগে পটু ছিলেন। আমরা তাঁর লেখার
pun-এর প্রয়োগ নিয়ে কিঞ্চিৎ কথা বলার চেষ্টা করব, তেমনই খুঁজে নিতে চাইব
pun ছাড়া ভাষাশৈলীর অন্য দিকগুলো নিয়ে কারোর কিছু না-বলার কারণও।

এই pun জিনিসটা ত্রিক-কী রকম? এক কথায় pun হল শব্দ নিয়ে খেলা
(word play)। শব্দের উচ্চারণ (utterance) ও অর্থ (Meaning)- সাধারণত এ
দু'য়ের পারস্পরিক সম্পর্কের উপর ভিত্তি করে শব্দের এই খেলা তৈরি করা হয়।
অর্থ থেকে প্রায় আড়াই-তিন হাজার বছর আগে গ্রাটান ইরাক, মিশর ও চীনে এই
pun-এর ব্যবহার হয়েছিল বলে ইতিহাসে জানা আছে। কিউনিকর্ম ও হ্যারায়নিক্‌স্
নিষিদ্ধে pun-এর ব্যবহারের মূল কারণ সেদিন হতো ছিল শব্দের দ্ব্যর্থ (double
meaning)-কে কাজে লাগিয়ে কোনো গোপন বার্তা বা সংকেত প্রেরণ করা। কিন্তু
পরবর্তী কালে প্রধানত দু'টা কারণেই pun-এর ব্যবহার শুরু হয়। কৌতুকপ্রসঙ্গী
কবিত্ব ও চুটকি জাতীয় লেখার ক্ষেত্রে মাত্র হাস্যরস আমদানির জন্য এবং সাহিত্যে
আলংকারিক বা নান্দনিক উৎসর্গ সৃষ্টির জন্য। সাম্প্রতিক কালে অবশ্য মানুষের দ্রুত
দৃষ্টি আকর্ষণের জন্য বিজ্ঞাপনে pun-এর প্রয়োগ লক্ষ করা আছে। বিশ্ব-সাহিত্যের
ক্ষেত্রে শেকসপিয়ার, অস্কার ওয়াইল্ড, জেমস জর্জিস, আলেকজান্ডার পোপ প্রমুখেরা

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।।। এবং মতুয়া - সেপ্টেম্বর, ২০২১



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UGC CARE LIST I_2021 (Arts and Humanities)

43.	Chinuku Maasa Patrika (print only)	Chinuku Publications	2455-4111	NA
44.	CLIO An Annual Interdisciplinary Journal of History (print only)	Corpus Research Institute	0976-075X	NA
45.	Cognitextes	Association Francaise de Linguistique Cognitive	NA	1958-5322
46.	Comparative Philosophy	Center for Comparative Philosophy, San Jose State University	NA	2151-6014
47.	Critic: Journal of the Centre of Russian Studies	Centre of Russian Studies, School of Language, Literature & Culture Studies, Jawaharlal Nehru Univ	2229-7146	NA
48.	Dance Education in Practice	Taylor and Francis	2373-4833	2373-4841
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50.	Darshnik Traimasik	अद्वैत भारतीय दर्शन परिषद	0974-8849	NA
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53.	Dharmadoot	Maha Bodhi Society of India	2347-3428	NA
54.	Dhimahi (print only)	Chinmaya International Foundation Shodha Sansthan	0976-3066	NA
55.	Dibrugarh University Journal of English Studies	Department of English, Dibrugarh University	0975-5659	2581-7833
56.	Dirasat Arabia (print only)	Centre of Arabic and African Studies, Jawaharlal Nehru University	2348-2613	NA
57.	Discours	Universite de Paris-Sorbonne	NA	1963-1723
58.	Drishti: The Sight	Drishtikon The Sight	2319-8281	NA
59.	Drishtikon (print only)	Drishtikon Prakashan	0975-119X	NA
60.	Ebong Mohua (print only)	K. K. Prakashan	NA	NA
61.	Ebong Mushayera (print only)	Ebang Mushayera	0976-9307	NA




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A New Modified Linear Search Algorithm

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Abstract - A new modified linear search technique is proposed for the search of an element from an unsorted array elements to refine search techniques of unsorted array elements such as linear search technique and two way linear search technique. Algorithm and efficiency analysis of the proposed search technique is given. A comparison with linear search technique and two-way linear search technique is also given.

Keywords - Searching, Algorithm, Linear search, Modified Linear Search, Binary search, Empirical, Efficiency, Complexity.

I. Introduction

Different search techniques such as linear search, binary search, ternary search etc. [1, 2, 3, 4, 5, 6] play a major role in various scientific and engineering fields. Searching techniques has a considerable attention in Data Structure through last few decades. Now a days, design an algorithm to refine searching techniques is an important task since searching an element in a significant lesser time from a lot of data stored in a system has immense importance in Computer Application. A linear search is the most basic and simple search algorithm. Linear search also known as sequential search which is made over all items one by one until every item is checked and if a match found then that particular item is returned otherwise search continues till the end of the data collection. The worst case performance scenario for a linear search is that it needs to loop through the entire collection, either because the item is the last one or because the item is not found. In a collection of N items, the worst case scenario to find an item is $\Theta(N)$, where Θ is the big theta function [7]. Despite its less performance, linear search is extremely common. Binary search is a more specialized algorithm than a sequential search. In this search data must be in sorted form. The basic idea of the binary search is to divide the sorted data into two halves and to examine the data at the point of split. In worst case, the binary search produces a high time complexity $\Theta(\log_2 N)$ than linear search in an N - items data. Binary search fails if data are not in sorted form. Searching an element from an unsorted collection of data has a wide range of application than from a sorted collection of data. So the searching techniques which searches element from an unsorted collection of data has to be modified.

In the worst case, when there is no match element or the first match element happens to be at the last iteration of searching, the algorithm makes the largest number of iterations among all possible inputs of size N . The worst case efficiency of an algorithm is its efficiency for the worst case input (or inputs) of size N for which the algorithm runs the longest among all possible inputs of the size. The best case analysis of an algorithm is its efficiency for the best case input of size N , which is an input (or inputs) of size N for which the algorithm runs the fastest among all possible inputs of that size. Accordingly, one can analyze the best case efficiency as follows. First, one can determine the kind of inputs for which the count $C(N)$ will be the smallest among all possible inputs of size N . Then the value of $C(N)$ should be ascertained on these most convenient inputs. For a sequential search from an unsorted list of N - items $(A[0, 1, 2, \dots, N - 1])$,

$$C_{\text{worst}}(N) = N \text{ and } C_{\text{best}}(N) = 1. \quad (1)$$

For the assumptions, (i) the probability of a successful search is equal to p ($0 \leq p \leq 1$) and (ii) the probability of the first match occurring in the i^{th} position of the list is the same for every i . The average number of key comparisons is [7]

$$C_{\text{avg}} = \frac{N+1}{2}p + (1-p)N \quad (2)$$

Arora et al [4] got a refinement of linear search and presented two way linear search technique. In this paper, our aim is to refine linear search technique since it has a wide range of application as it works even if data are not in sorted form, to do so, we introduce a modified linear search (MLS) technique to reduce the time taken to search a





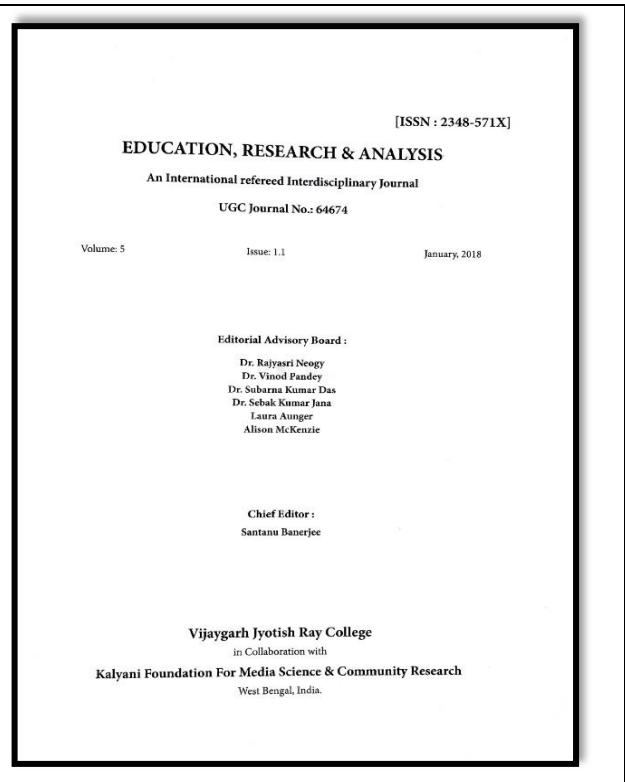
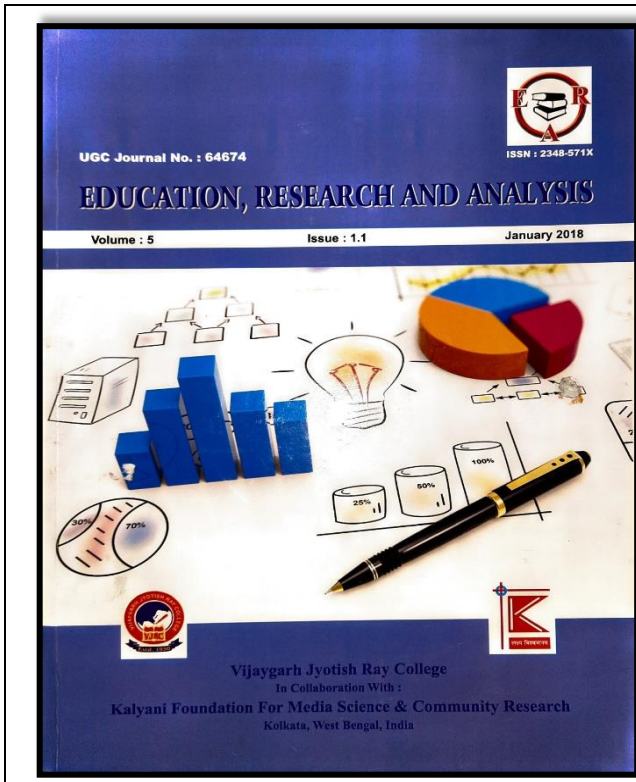
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Status of Women in Higher Education in 21st Century India

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Abstract : Education is an art of imparting knowledge to others for betterment of their life and preparing them for achieving their aim, as a profession. Higher education means education beyond the level of secondary education, i.e. education at degree level and above. Indian education system is one of the oldest and largest in the world. But it is a common feature in India that since birth girls are discriminated in subtle and crude ways. But despite this, it is a great advancement that presence of women in colleges and universities are growing. In recent years, India has progressed much in women's education to change the social face of country, although much remains to be done in this regard. This paper attempts to study the status of women in Higher Education in India since the Vedic Period and how it has changed since then to culminate into its current form.

Key Words : Women's Higher Education, Empowerment, Women Colleges, Stream-wise Enrolment, Degrees Awarded, Teachers, etc.

Introduction

It is often argued that education is a powerful tool in the emancipation and empowerment of women. Experts on women's liberation argue for women's education as the basic step in women's equality. Education is a milestone for women empowerment because it enables them to respond to opportunities, to challenge their traditional roles and to change their lives. Education is one of the most important means of empowering women with knowledge, skills and self confidence required to participate fully in the development process. The role of education is not only learning of three Rs, ("Reading, Writing, and Arithmetic") but also includes raising awareness and critical analysis of various structures and acquiring knowledge for empowerment at all levels.

Education plays a crucial role in social- economic development of a country through improvement of human resources. Educating women, therefore, occupies top priority among various measures taken to improve the status of women in India. In recent years, the focus has shifted from their traditional roles towards recognizing their worth as producers, making a major contribution to family and national income. Today India's higher education system is the World's third largest education system after US and China. But the educational statistics in higher education is not as per expectation.

Historical Background

Indian mythology is rich with stories of highly educated and evolved women. One can trace the historical evidence of ancient Indian education to the 3rd century B.C. when education was imparted orally and many women scholars were part in it.

In the Vedic period of ancient India, education was open equally to men and women. Many females distinguished themselves not only as Vedic scholar but also as great philosopher, sages and teacher among whom Gargi, Sulabha, Lopamudra, Maitri, Apala, Vishwavyasa, Sikata, Ghoshia are worth mentioning. There are several references in the epics, smritis and puranas, where women enjoyed an elevated status in society. It is also interesting that girls like boys underwent the upanayana ceremony before entering into the

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Mathematics Phobia and Achievement Among XI Grade Secondary School Students-- A Case Study

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ABSTRACT

The weakness of mathematics is the most important variable in the learning of mathematics of the secondary school students. This article investigated mathematics phobia and achievement among XIth grade secondary school students--A case study. The first purpose of this study was to find out causes of mathematics phobia in secondary school students and the second purpose was to find out difference between male and female students relating to mathematics phobia and third purpose is to find out relation between mathematics phobia level and academic achievement. The present study examined the 20 students from Bengali medium school under W.B.C.H.S.E. The measuring tools used in the study are the mathematics phobia scale and the personal information Form. The result at the study are students have the causes of math phobia and math phobia have the male students greater than the female students. Both male and female students are suffer by the math phobia but female students less than the male students is suffer by the math phobia, and negatives correlation between math phobia and academic achievement of male students and partial correlation have the female students between math phobia and academic achievement.

INTRODUCTION

Mathematics is a compulsory subject offered in secondary schools and is taught daily in all the schools. The first national mathematics curricula for primary and secondary schools used in the country were developed in 1979. The importance and contribution of mathematics

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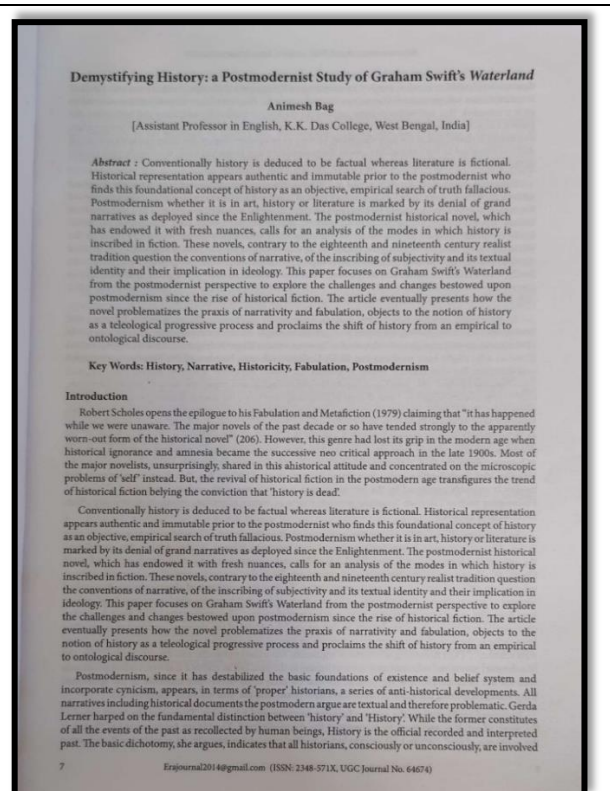
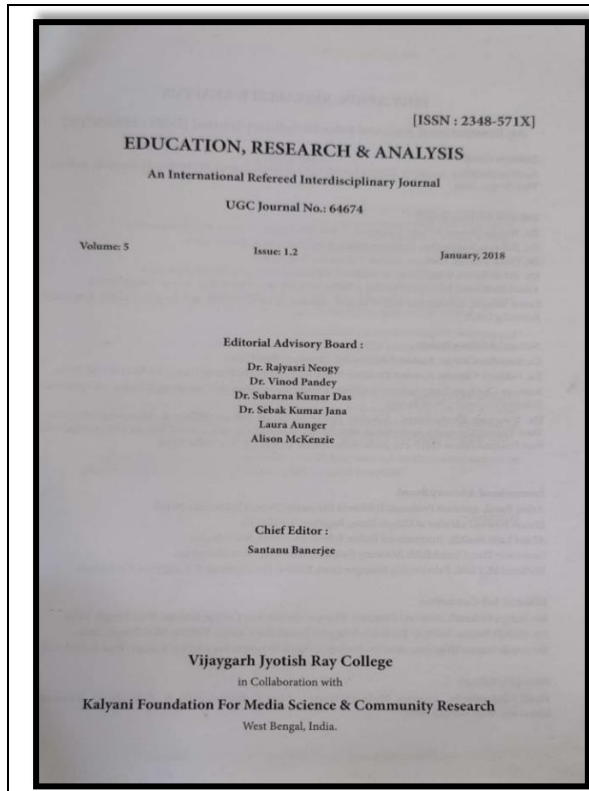
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Like a Tangerine: Despair, Death, and the Poetic Self in Jibanananda Das's Select Poems
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Vol. 30 | 2022 | Like a Tangerine: Despair, Death, and the Poetic Self in Jibanananda Das's Select Poems | Animesh Bag

Abstract
In the early twentieth century Bengal, a group of young artists called Kallol poets introduced modernism in Bengali literature through their experimental writings, and called for a revision of the traditional spiritual idealism Tagore and others held so far. This generation of poets truly captures the essence of the time, its general mode of depression though they are in some way associated with Rabinranath either through their appreciation or negation. The poetry of Jibanananda Das along with Kavi Nazrul Islam who belongs to the Kallol era fundamentally departs from the Tagorean ideal of humanism and consolidates literary modernism in Bengal. Das's poetry is sensuous, surreal filled with violent imagery, creaturely human/non-human relationships and especially death thoughts. It argues that the poet Jibanananda is difficult to detangle from the person Jibanananda as he had to go through poverty, loss, and existential dilemma. The paper, therefore, would attempt to explore the poetic self of Jibanananda inscribed in that modern chaotic time. How his complex, nihilistic poetic expression, the theme of despair, remorse, and death, which are characteristics of the modern poetry merging the personal and political, nature and culture, and worldly and metaphysical would be the main thrust of this paper.

Keyword: Despair, Bestial Nature, Suicide, Poetic Self, Kallol Poets
The Kallol Era and Jibanananda Das
In the wake of the post-World War crisis, abject poverty, and anti-colonial insurgencies Bengal

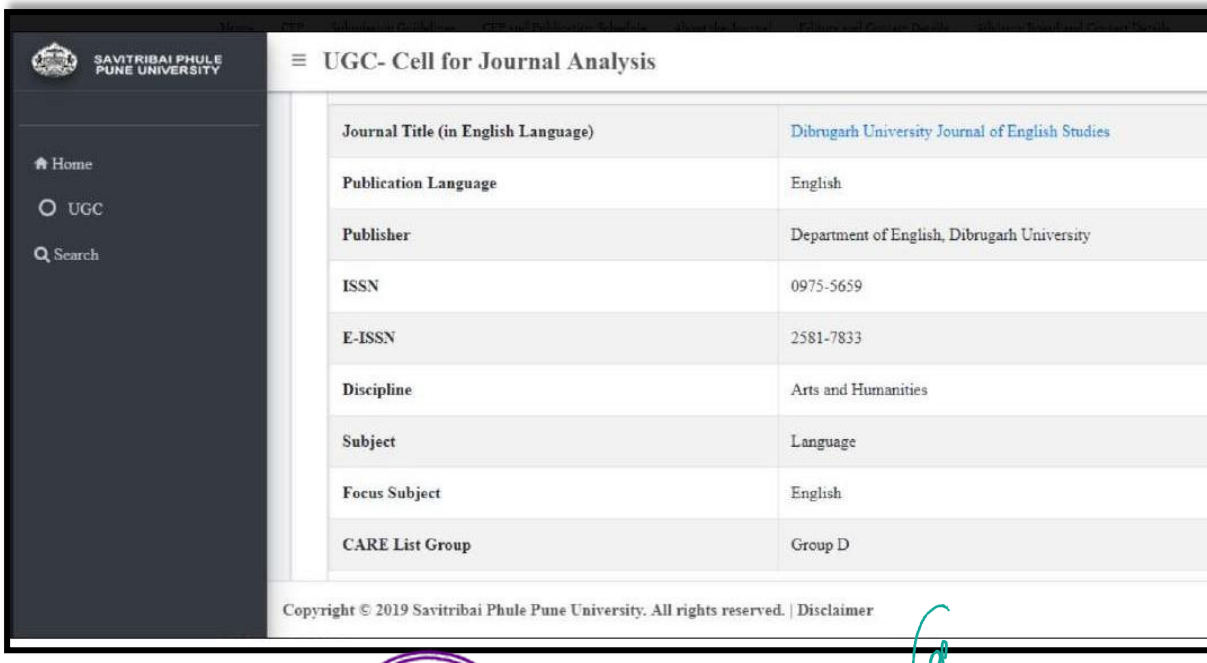
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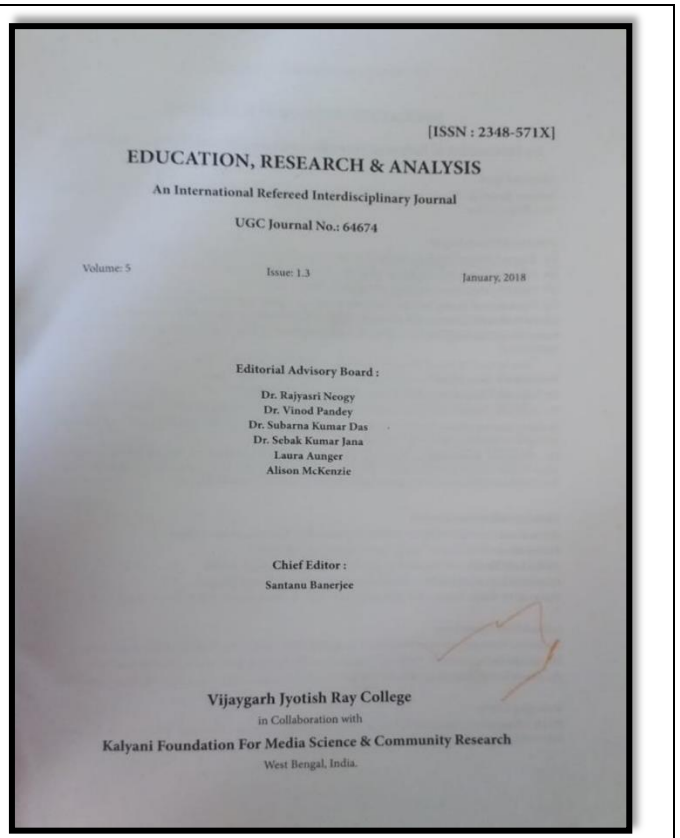
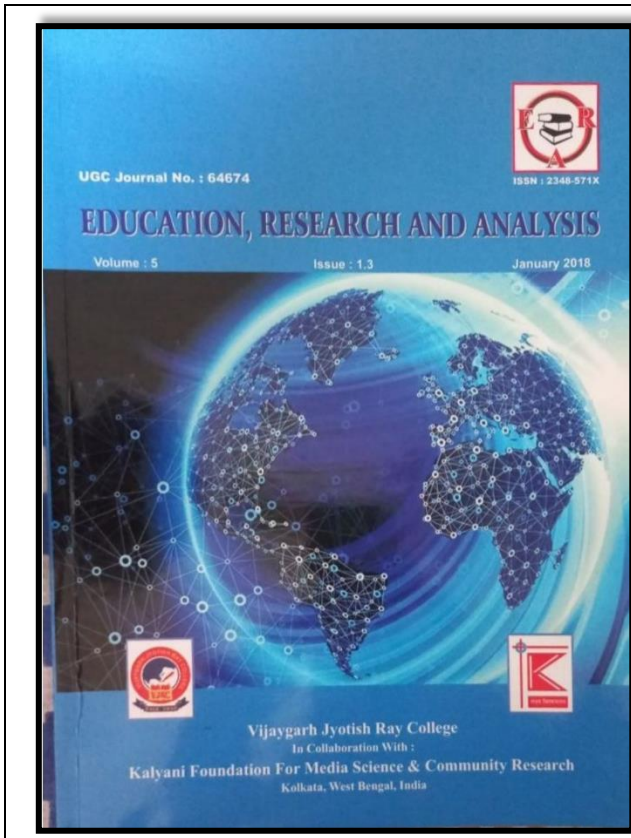
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Transmission of Memory: Impact of Oral History on Postmemorial Partition Fiction

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Abstract: In this paper, I propose to analyze the manner in which the memory of the event of Partition is transmitted to the authors of Partition fiction belonging to the subsequent generations who lack any lived memory of the event and base their understanding of Partition on the postmemory of the event. Oral histories in the form of survivor testimonies have had a significant role to play in the transmission of the memories of Partition to the second and third generation authors who have attempted to represent Partition in their fictional works.

The 1990s saw the publication of oral testimonies in works by Urvashi Butalia, Ritu Menon and Kamla Bhasin. The various other oral history projects include Indian Memory Project: 1947 India Pakistan Partition Archives, Whitehead's 'India: A People Partitioned', 'Partition Remembered' project by the Birmingham City Council and 1947 Partition Archive. Postmemorial Partition fiction authors like Shauna Singh Balwin, Amit Majmudar, Irfan Master, Sorayya Khan acknowledge their indebtedness to oral testimonies while writing their novels *What the Body Remembers*, *Partitions*, *A Beautiful Lie*, *Five Queens Road* respectively. Thus this paper will analyze the impact of oral testimonies on Postmemorial Partition fiction and try to understand the way in which the authors have used the knowledge from testimonies to create their own understanding of the Partition.

Key words: Partition, Postmemory, Oral History, Partition Fiction

Introduction

Partition fiction by the second and third generation writers present an artistic representation of the Partition without any firsthand knowledge or experience of the event. Since Partition is a watershed moment in the history of India, these continual literary engagements with it are significant. The writers have access to information generated by various sources and use their imagination to create the image of the event in their "belated" works. Partition fiction written by the second generation (those whose parents' generation underwent the trauma of Partition) and third generation (those whose grandparents' generation experienced the Partition) writers deal with not the memory but the postmemory of the event as they have not had any first-hand experience of the event. The ways in which "memories of Partition continue to circulate across generations within the sub-continent, and mediate and intersect with the everyday realities" bring to focus the involvement of the second and third generation with the event.

The Post-memorial Partition fiction writers can access the 'event' of Partition, not only through the historical accounts, photographs, familial recounting of the horrors of the event but also through the personal testimonies recorded in written and video format. In 1997, with the completion of fifty years of independence, oral testimonies about the Partition were collected and published. The testimonies that have been recorded provide a glimpse into the aspect of human suffering that took place during the Partition which is lacking in historical and official narratives. Along with the published testimonies like *The Other*

1 Anjali Gera Roy & Nandini Bhatia, Ed. "Introduction" *Partitioned Lives: Narratives of Home, Displacement and Resettlement*, New Delhi: Dorling Kindersley (India) Pvt. Ltd., 2008, p. xi.

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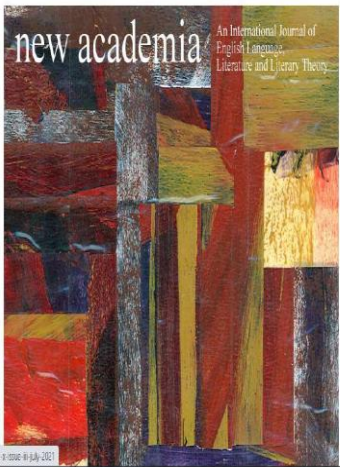
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**'PARTITION FROM A CHILD'S PERSPECTIVE IN IRFAN MASTER'S
A BEAUTIFUL LIE**

Dr. Soumana Biswas
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Abstract:
In this paper, I would like to analyse the event of Partition as depicted by a third generation writer Irfan Master in his novel A Beautiful Lie (2011). The novel is unique as it presents the Partition from a child's perspective. The second and third generation writers of Partition based their representation of the event of Partition majorly on knowledge gained from family history and oral testimonies. In case of Irfan Master, he acknowledges his debt to his family history and the knowledge that he receives from his grandfather about Partition. In this paper, I have delved into the subject of postmemorial third generation Partition fiction and the way in which Master has looked back at Partition without having any lived memory of the event.

Keywords: Partition, children, postmemory, family history




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Orientalist Prodigy and Post-Colonial Plight: The Works of Colin Mackenzie (1754-1821)

Deblina Biswas

Abstract

The publishing of the book 'Orientalism' by Edward Said in 1978 has marked a new genre in post-colonial studies. By posing East and West into two 'pre-determined' categories he argued that the 'Orient', having no historical consciousness, was being 'imagined' by the West. Here, in this article my intention is to show the works of Colin Mackenzie in juxtaposition of this argument to prove that the efforts of the early colonial 'scholar-administrators' can never be described in a linear way. Their obligations towards the Company on the one hand and their inquisitive zeal on the other, require deeper introspection.

Keywords: post-colonial studies, Indology, antiquarianism, acculturation, Mackenzie Collections.

In the opening of the play, *The Dreams of Tipu Sultan*, written by Girish Karnad, the conversation between the Orientalist scholar Colin Mackenzie and an indigenous historian of Mysore Mir Hussain Ali Khan Kirmani has conveyed that developing a sense of objectivity is a prime factor of being a historian. It has also in turn taught us to judge historical facts from a distance which help historians to give an unbiased comprehensibility about the facts. In this fictional role, Colin Mackenzie, being the proponent of the sense of historical objectivity argued that, the flipside of every story bears another version of history without which the whole panorama could not be understood. The process of perceiving the past of some place is not only a complex

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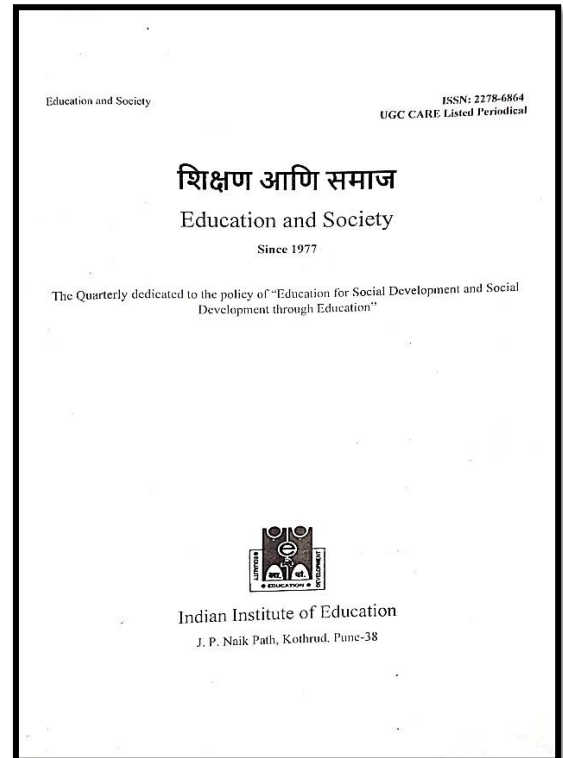
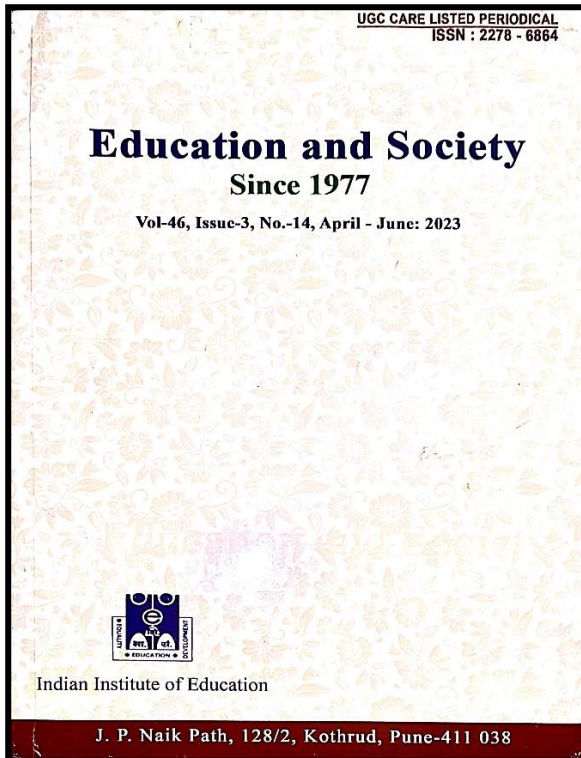


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WRITING OF HISTORY ON THE PROSTITUTES;WOMEN IN THE MARGINS

Dr.SreyashiSarkar, Assistant Professor, K.K.Das College

The paper is unique in connecting all the aforesaid disparate perceptions in a holistic way. The purpose is to make a comprehensive research on the theme, and the main hub of the dissertation lies in tracing the attitude of the state and its various agencies towards prostitution. With a preliminary picture of the background from pre-colonial times, the research is mainly rooted in nineteenth and twentieth century colonial Bengal. The impact of venereal disease, the implications of lock hospitals, the introduction of Contagious Disease and Cantonment Acts were all interlinked with the vision of the colonial state towards the lowliest of this marginal group, i.e. prostitutes.

Historiography

The majority of the scholarly works are written on the history of the emancipation of middle class women in colonial Bengal. Still, India with few special reference to Bengal. These works, for example, Geraldine Forbes¹ two volumes on women, are very good starters. She traced the history of Indian women from the nineteenth century under the colonial rule to the twentieth century after independence. Among others who have worked on women, like Indira Chowdhury², Ratnabali Chattopadhyay³, Dagmar Engles⁴, Uma Chakrabarty⁵, Meredith Borthwick⁶, Lata Singh⁷, Veena Oldenburg⁸, Radha Kumar⁹, Philippa Levine¹⁰, Erica Wald¹¹, Sumanta Banerjee¹², Samita Sen¹³ and others have shown the way to understand the

¹ Geraldine Forbes, *Women in Modern India*, The New Cambridge History of India, Cambridge University Press, New York, 1996

² Indira Choudhury, *The Frail Hero and Virile History, Gender and Politics in colonial Bengal*, Oxford University Press, Delhi 1998

³ Ratnabali Chattopadhyay, "Constructing the Beshya in Nineteenth Century", in Anuradha Chanda, Mahua Sarkar, kunal Chatterjee, eds., *Women in History*, eds., Progressive Publishers Calcutta, 2003

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¹³ Samita Sen, *Women and Labour in late Colonial Bengal: The Bengal Jute Industry*, Cambridge University Press,



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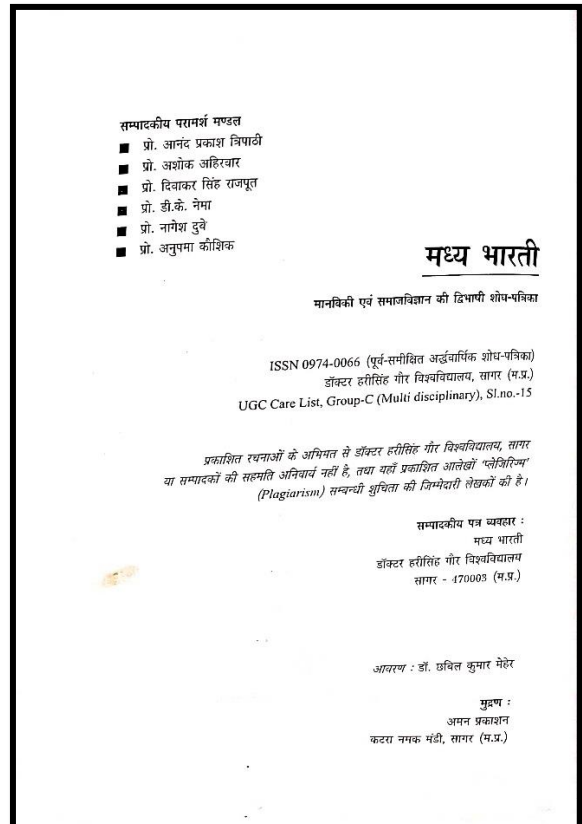
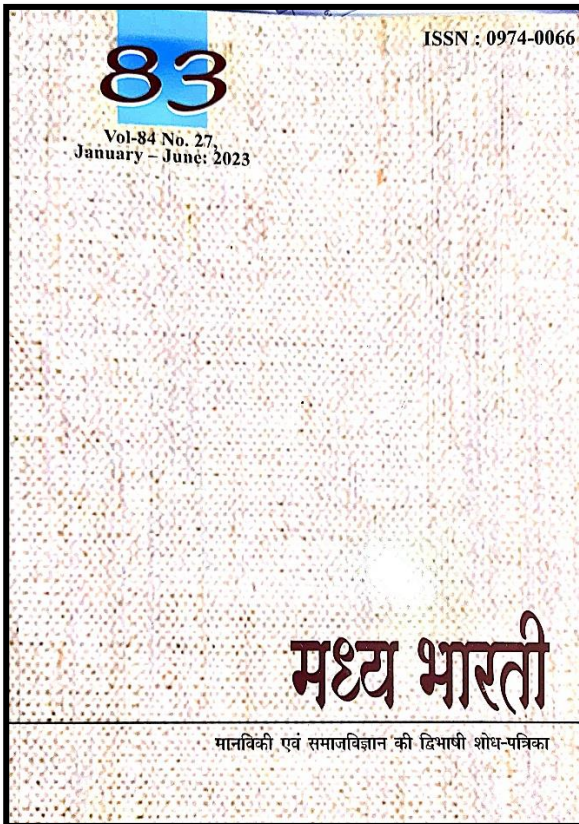
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ATTITUDES OF THE BENGALI GENTRY TOWARDS THE PROSTITUTES OF BENGAL

Dr. Sreyashi Sarkar, Assistant Professor, K. Das College

In this paper I want to discuss about the gradual changes in the social position of the prostitutes in colonial Bengal. The recognition that lepro colonial state and society gave to the prostitutes and their occupation was not seen in 19th century Bengal, a region that was undergoing a massive social and cultural transformation.

Sunanta Banerjee has argued that colonial rule brought a major change in the attitudes towards prostitutes in nineteenth century Bengal. It was transformed from a crime to a sin. Much earlier Kenneth Ballhatchet showed love the notion of race, class and sex helped to construct the image of the prostitutes with the help of the laws and lock hospitals. Meredith Burthwick showed that some measures were taken to rescue these 'fallen women' but those steps were very sporadic in nature. These authors have helped me to understand the scenario of prostitutes in colonial Bengal. By Bengal I am referring to a linguistically homogenous region where the majority were speaking in Bengali. My main emphasis would be on the urban areas of western Bengal. Though there are occasional references to the parts of eastern Bengal I am not taking into account the geo political boundary of Bengal consisting of Bengal, Bihar and Orissa.

This paper will throw light on the changing status of prostitutes in colonial Bengal. In the history of prostitution the 19th century played the most significant role. It marks a turning point in the history of Bengal and perhaps in the history of India as a whole. Socio-culturally and politically it might be spotted as a period of break through. The 19th century in Bengal saw immense intellectual interest in women's issues which found expression in manifold writings on social position of Bengali women. Active efforts to change the social status of women accompanied this intellectual movement.

This concern for the women's question however was strictly limited. Though women's voices were being brought to the forefront, still a significant section of women's history, especially of those on the margins - considered as the 'other' woman in the construction of middle class women - remained invisible. The representation of women as public entertainers no longer served the interests of the English-educated elite, who put in her place the Indian equivalent of the Victorian domestic angel, the sugrhini or good housewife. Female performers became stigmatized in educated discourse as 'prostitutes'.

Under British military imperatives prostitution was torn from its earlier aesthetic, ritual and social contexts to be defined increasingly as a labour oriented service as sexual commerce. The murahis, the devadasi, the tawaif, the baiji, the hindu widow, the muslim divorcee and the kulin wife were jambed in the same heap. British administrators, who had in the East India Company's era attended nautch parties, indulged in liaisons with bibis were now self-consciously distancing themselves from the uncivilized salacity of a native society which recognized, accepted and even celebrated prostitution. The efforts of surveys and censuses resulted in the hardening of the category, and the multiple identities of performers, concubines, religious mendicants and destitute were collapsed into a single term, the 'prostitute'.

The attitudes of the bhadralok samaj

Evidently the demands of the market shaped the pattern of prostitution in 19th century Bengal. In the parlance of the red light areas customers were known by a variety of terms like babu, khodder, nagar etc. The word 'babu' popular in 19th century Bengali discourse, was a catch; all term that

* Samita Sen, *Women and Labour in Late Colonial India, The Bengal Jute Industry*, Cambridge University Press, 1999, pp. 191-192

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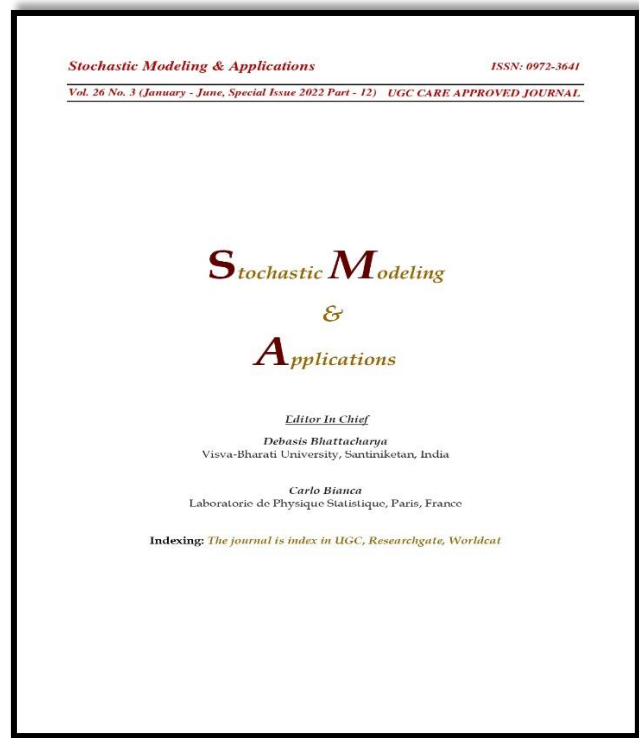
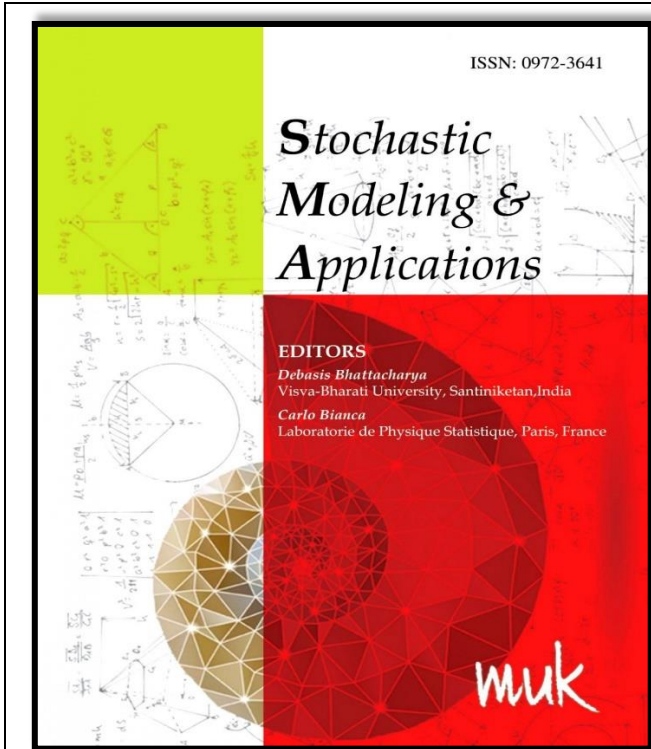
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TORSIONAL IMPACT OF HOMOGENEOUS LAYER BONDED TO AN ELASTIC NON-HOMOGENEOUS HALF-SPACE

NASIMA MUNSHI

ABSTRACT
Impact of torsional load of homogeneous layer bonded to an elastic non-homogeneous half-space has been analyzed in this paper. Sudden torsion is applied to the homogeneous layer over a bonded rigid circular disc. Using Laplace and Hankel transforms the mixed boundary value problem is reduced to the problem of solving a pair of dual integral equations. The problem is further reduced to Fredholm integral equations of second kind. Solving the integral equations, the analytical expression of torsional impact is obtained in the Laplace transform domain. Using Laplace Inversion Technique Numerical values of torque at the surface of the rigid disk are obtained and graphically plotted.

Keywords Impact, Torsion, Laplace and Hankel transforms, Fredholm integral equation, Laplace Inversion
2010 Mathematics Subject Classification: Mechanics of deformable solids: code 180658

1. INTRODUCTION

Contact mechanics is a rapidly progressing branch of solid mechanics. It finds a wide application in various fields of modern science and engineering. Many researchers have studied this kind problems. Eason [1], Shail [2] have considered the sudden torsional impact problem in half-space. The problem of torsional impact of a thick elastic plate was investigated by Toshikazu Shabuya [3]. The torsional oscillation of a rigid circular disc attached to an elastic layer bonded to an elastic half-space has been considered by Keer et al. [4]. Basu and Mandal [5] have studied the impact of torsional load on a penny shaped crack in an elastic layer sandwiched between two elastic half space. Rahimian et al. [6] considered the Reissner-Sagoci problem for a transversely isotropic half-space. The Reissner-Sagoci type problem for a non-homogeneous elastic cylinder embedded in an elastic non-homogeneous half-space was studied by Singh, Dhaliwal and Verbi [7] In this paper the problem of torsional impact of a homogeneous layer, with rigidity modulus μ_1 and density ρ_1 , bonded to an elastic non-homogeneous half-space with rigidity modulus μ_2 and density ρ_2 given by the law $(\mu_2, \rho_2) = (\mu_0, \rho_0)e^{-\beta^2 z}$ is considered. The torsional impact is applied over the circular region by a bonded rigid disc. The geometry and coordinate system are shown in Fig 1. Torsional impact for the case of homogeneous layer bonded to homogeneous half space was discussed by R.S Dhaliwal, B.M. Singh, Jan Verbi [8]. Making use of Laplace and Hankel transforms the solution of the problem is reduced into the solution of Fredholm integral equation of second kind. Laplace Inversion is done using numerical Laplace inversion method to find the applied torque and presented by means of graph.

2. BASIC EQUATIONS

In the problem cylindrical co-ordinate system (r, θ, z) is used. In the dynamic problem of anti-plane shear, there exists a single non-vanishing component of displacement in the θ direction and independent of θ , i.e.

$$u_r = 0 = u_z, \quad u_\theta = u_\theta(r, z, t) \quad \dots \dots \dots (2.1)$$

where u_r, u_θ, u_z are the displacement components in the r, θ, z directions respectively. Hence the corresponding stress components that are different from zero can be obtained from u_θ as

$$\sigma_{r\theta} = \mu \left(\frac{\partial u_\theta}{\partial r} - \frac{u_\theta}{r} \right) \quad \dots \dots \dots (2.2)$$

$$\sigma_{\theta z} = \mu \left(\frac{\partial u_\theta}{\partial z} \right) \quad \dots \dots \dots (2.3)$$

where μ denotes the shear modulus of the material. We denote all the physical quantities for the layer by superscript 1 and for the half-space by superscript 2.

Two of the equations of motions are identically satisfied and the remaining one gives

$$\frac{\partial \sigma_{r\theta}}{\partial r} + 2 \frac{\sigma_{r\theta}}{r} + \frac{\partial \sigma_{\theta z}}{\partial z} = \rho \ddot{u}_\theta \quad \dots \dots \dots (2.4)$$

For the layer this equation becomes

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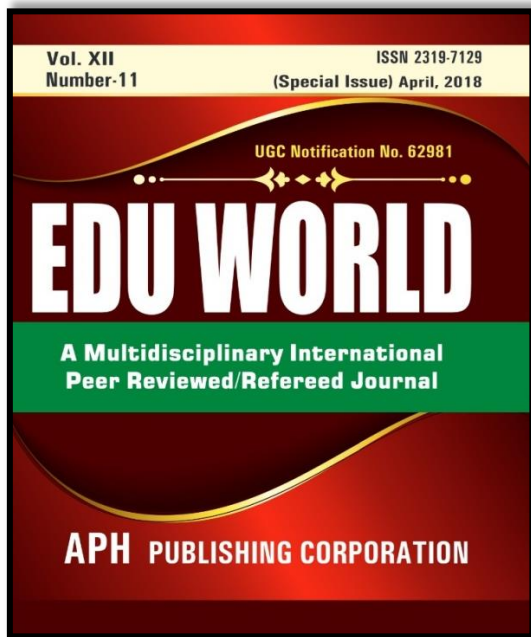
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Culture of Practicing Motherhood: A Sociological Study in Rural Bengal

Bidya Ratan Tikader*

ABSTRACT

Culture is a complex way of life of whole which includes beliefs, custom and motherhood is a feature that has multiple connotations depending on where, when and when you are. Variation in motherhood practices may be seen as having its own significance in sociological understanding. Rural society has its own unique characteristics. Its socio-cultural singularity reflects the rarity of motherhood in rural communities. It goes without saying that globalization, or more accurately, global forces of social change, has narrowed the urban-rural divide in the modern era, but the question remains as to how far it has succeeded in altering the fundamental value structure governing the concept and reality of mothering and motherhood. The outcomes of an empirical study done in West Bengal's Nadia District are presented in this article. Mothers of all ages, both young and old, were questioned. Using such theoretical discourses, the current research attempts to comprehend the impact of such role differentials among mothers in preserving social continuity as well as the personality integrity of their children.

Keywords: Culture, Motherhood, Practicing, Rural, Pregnancy

INTRODUCTION

The culture is a complex way of life of whole which includes beliefs, knowledge, morals, custom, law, habits and any other capabilities acquired by the any people in a members of any kind of society and Mother is a broad concept that has different meanings based on position, time, region and society. Each of mother community has its own significance in relation to these culture practices of sociological understanding. The culture practices factors exert important effects on maternal health care choices and practices, which are reflect attitudes, values and beliefs held by members of the mother community in rural areas or society. Childbirth is a time of transition and social celebration in many rural societies and it indicates the cultural responsibilities. Whereas every mother community in the world has unique traditional cultural practices and beliefs, some of which are beneficial and god or bad in respect of other side. For instance, these cultural (food beliefs and taboos) practices that are prevent women from taking appropriate decision and a global phenomenon that are intended to have a positive effect to the practicing community including, conservation of a sacred resource, maintenance of social norms, morals, identity and protection of human health.

This paper focuses with women's early maternity practices in rural setting, which are critical in any type of village civilization. Mothering is, of course, diverse, it is a form of childcare that takes on multiple meanings depending on the context, time, and location. It can be taken into consideration that variation in motherhood practices has its very own importance in sociological perspective (Miller, 2005). Rural society has its non-public (personal) settings. It has socio-cultural uniqueness, which displays superiority of mothering in rural community. Needless to say that globalization or for that rely the everyday or worldwide forces of social change within the modern

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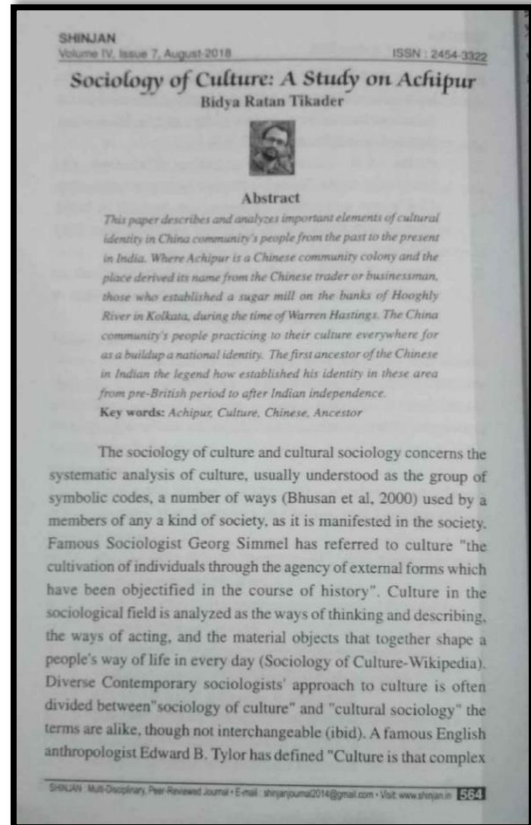
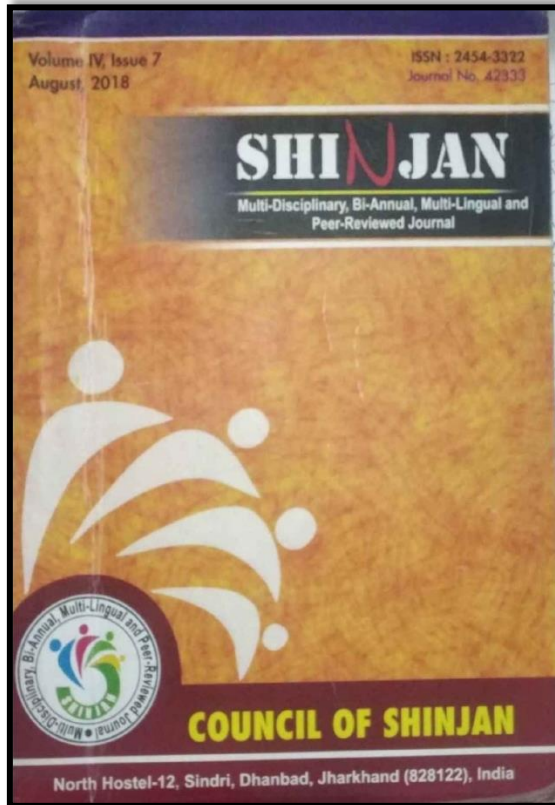
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The Untouchability Debate between Ambedkar and Gandhi: A Critical Analysis

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Abstract

'Untouchability' raises a number of difficulties to universal conceptions of liberty, equality, fraternity and justice. In India, the protest movement and social reformers had fight for justice of the socially weaker sections, where Dr. Babasaheb Ambedkar (1891-1956) was famous leader of the untouchables in India and a symbol of rebellion against all the oppressive features of Hindu society. Ambedkar's systematic idea of 'untouchability' stems not only from his book 'The Untouchables: Who Were They and Why They Became Untouchables (1948)', but also through from his own life experience of injustice over three decades. Gandhi, on the other hand, had his own ideas on untouchability. He was ideologically loyal to the religious traditional Hindu society. The communal award in 1932, the untouchable problem became controversial (Ambedkar-Gandhi) and further led to polarizing Indian politics. In this context, the current article tries to do a critical evaluation and see how many different points of view in contemporary there are.

Key Words: Justice, Hindu, Society, Untouchable

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ড. বিদ্যা রতন টিকাদার

১৮৯৬ সালে ১লা নভেম্বর স্বামী বিবেকানন্দ (১৮৬৩-১৯০২) মেরি কলেজ চিঠিতে নিজেকে সমাজতন্ত্রী বা 'সোস্যালিস্ট' (Socialist) বলে অভিহিত করেছিলেন। কারণ এ নয় যে, আমি এই মত সম্পূর্ণ নির্ভুল বলে মনে করি, কেবল মত এই নয় যে, আমি এ মত 'সামান্য' এই হিসাবে। একে বলে বিবেকানন্দের অগ্রজ রামকৃষ্ণের সঙ্গে ঊনবিংশ শতাব্দীর কালবৈধ সমাজতন্ত্রীদের চিন্তা-ভাবনার পরিচয় পত্রিকা। এমনকি আরেক অগ্রজ বঙ্কিমচন্দ্রের বিভিন্ন প্রবন্ধবলীতে সাম্যবাদের পরিচয় পত্রিকা। এ বিষয়ে ১৮৭৯ সালে প্রকাশিত সাম্য গ্রন্থটি বিশেষ উল্লেখযোগ্য। এই গ্রন্থে তিনি বদোবস্ত প্রসূত জমিদারি ব্যবস্থার কুফল, কৃষকদের দুরবস্থার ঐতিহাসিক অর্থনৈতিক কারণ ও তা দূরীকরণের ক্ষেত্রে আইন ও বিচার ব্যবস্থার বাধ্যতা ইত্যাদি নিয়ে তথ্যনির্ভর আলোচনা করেন। কিন্তু বঙ্কিমের সাম্যবাদী চিন্তা অভিজ্ঞতা প্রসূত হয়েও, তা ছিল অনেক বেশি পশ্চিমী; কখনো-কখনো তা ছিল মিলের প্রায় অনুকরণ। কিন্তু বিবেকানন্দের সমাজতান্ত্রিক ভাবনায় চিত্রিত ঐতিহাসিক স্ট্রীকার করেছিল। ঐতিহ্য বা ট্রাডিশন ও আধুনিকতাকে মেলাবার উদ্দেশ্যে বৈদ্যের পথে সোস্যালিজমে উপনীত হয়েছিলেন। আরো স্পষ্ট করে বলতে পারি যে, স্বামী বিবেকানন্দ ভারতবাসীকে যে সমাজতন্ত্রের দীক্ষা দিয়েছিলেন তা ভারতের নিজস্ব সম্পদ যা আধ্যাত্মিক চেতনাকে অবলম্বন করেই অর্জন করা যায়। মার্ক্স বিবেকানন্দের অগ্রজ হলেও তাঁর লেখাপত্রের সঙ্গে বিবেকানন্দের কোন ছিল কিনা তা জানা যায় না। তবে বিবেকানন্দের সমাজতান্ত্রিক ভাবনার মূল্য বাবহারিক বোধ (Practical Vedanta), গুরু রামকৃষ্ণদেবের প্রভাব ছাড়াও, শ্রেষ্ঠ দুইজন দার্শনিকের চিন্তার সম্মিশ্রণ লক্ষ করা যায় বিবেকানন্দের মধ্যে। শংকর ও অপরাজন বুদ্ধ, শংকরের মায়ান্দ তার কণ্ঠে ধ্বনিত হয়েছিল, অন্যদিকে চিন্তা স্বামীজিকে পুরোপুরি প্রভাবিত না করলেও বুদ্ধের বৈশ্বিক মানবতা তার মনকে ভাবে স্পর্শ করেছিল। বুদ্ধের প্রভাব বিবেকানন্দ ব্যবহারিক দিক থেকে গ্রহণ করেছেন। ইহ জীবনে মানুষের কর্তব্য সম্পর্কে নির্দেশ। বিবেকানন্দের সমাজতন্ত্র ছিল অভিজ্ঞতা প্রসূত, পরিগ্ৰাজকবোধে স্থিতি কাশ্মীর থেকে কন্যাকুমারিকা পর্যন্ত

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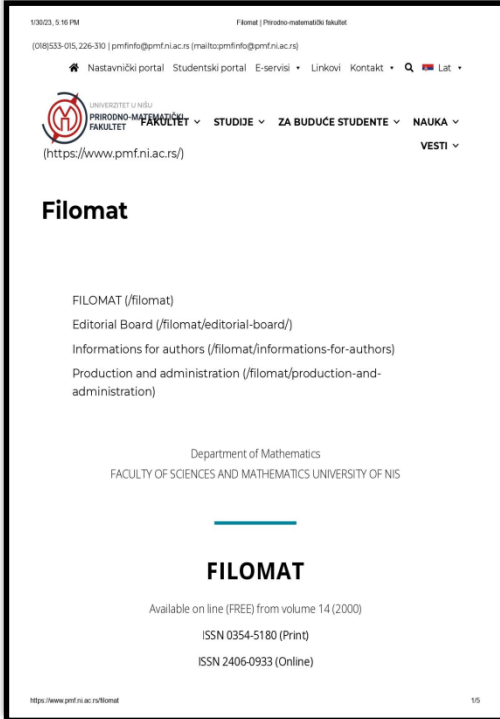
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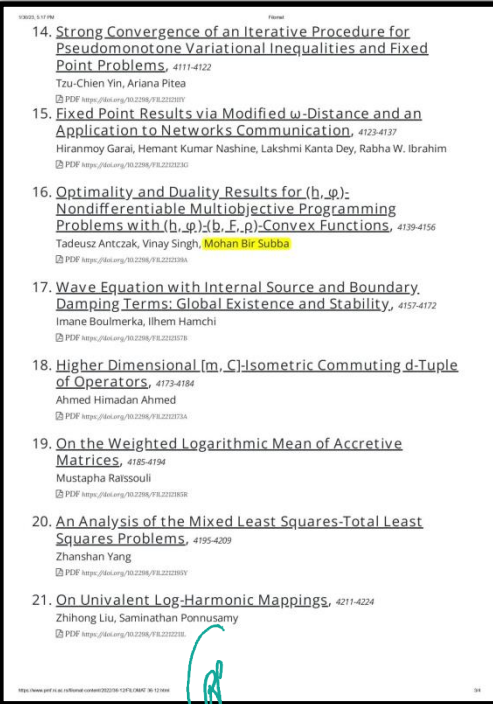
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Optimality and Duality Results for (h, φ) -Nondifferentiable Multiobjective Programming Problems with (h, φ) - (b, F, ρ) -Convex Functions

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Abstract. Generalized algebraic operations introduced by Ben-Tal [5] are used to define new classes of generalized convex functions, namely (h, φ) - (b, F, ρ) -convex functions and generalized (h, φ) - (b, F, ρ) -convex functions in the vectorial case. Further, optimality and duality results are proved for the considered (h, φ) -nondifferentiable multiobjective programming problem under assumptions that the functions involved are (generalized) (h, φ) - (b, F, ρ) -convex.

1. Introduction

Multiobjective programming also known as vector optimization, has grown remarkably in different directions in the setting of optimality conditions and duality results since 1980s. The term multiobjective programming is used to denote a type optimization problems where two or more objectives are to be minimized subject to certain constraints. Multiobjective optimization problems typically have conflicting objectives, and a gain in one objective very often is an expense of another. Recently there have been numerous attempts to generalize the concept of convexity in order to weaken the assumptions of the attained results for nondifferentiable multiobjective programming problems (see e.g. [2], [3], [4], [5], [6], [7], [8], [9], [10], [11],[12], [13], [16], [17] [18], and others). One of significant convexity generalizations is the concept of (F, ρ) -convexity introduced by Preda [15] for differentiable multiobjective programming problems. He established optimality conditions and duality results for differentiable vector optimization problems under assumptions that the functions involved are differentiable (F, ρ) -convex. The concept of (F, ρ) -convexity and various its generalizations have been used in proving optimality conditions and duality results for various classes of nonconvex multiobjective programming problems (see, for example, [1], [13], [14], and others). The definition of a (b, F, ρ) -convex function was defined by Pandian [14] for a

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