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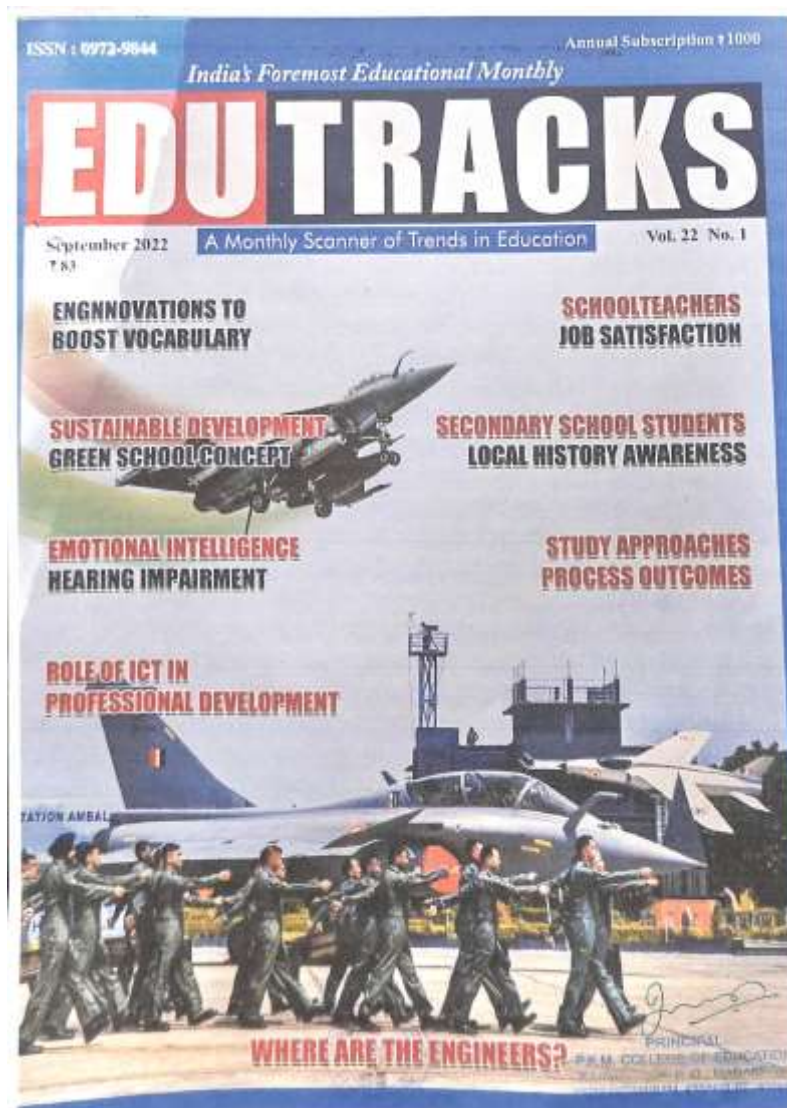


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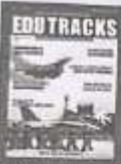
Research Papers and Articles

Name of the Author: Dr. Maya J Pillai

Title of Paper: Impact of Study Approaches on Process outcomes in Biology of 8th Standard Students of Kannur District of Kerala



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Maya J Pillai, Anjana. T

Impact of Study Approaches on Process Outcomes in Biology of 8th Standard Students of Kannur District of Kerala

research

Biological science is a study of living things on earth. 'Biology', the word is a combination of two Greek words 'Bios' (means life) and 'Logos' (means study). Through this study I'm trying to find out 'Impact of study approaches on process outcomes in Biology of 8th standard students in Kannur district' The method adopted for this study is Questionnaire Survey Method, involving a sample size of 50. By asking a total of 10 questions based on SCERT 8th standard Biological Science textbook, this study found that to learn and to reciprocate science, a student needs process skills like observation, communication, inferring, classifying etc. Without these process skills, learning science is not possible. The practical approach to teaching-learning provides better results than theoretical approach and this also complements better scientific process skills development.

Biological science is a study of living things on earth. The word 'Biology' is derived from Greek words 'Bios' (meaning life) and 'Logos' (meaning study). So, biologists actually study about the structure, growth, function, origin, evolution and distribution of living organisms. (Alane Lim *et al.*, 2022). It is a branch of science that helps us to learn more about the mysteries of the biological world. Every organism in this world is connected to each other as well as to the non-living things in the world in such a manner that they can't exist in absence of one another. Starting from the microscopic form to the gigantic form, there exists life.

Learning biological science is like learning our own roots. The importance of Biology as a school subject is being emphasized more during recent days since pandemic diseases are spreading uncontrollably and the need to find cure for them is increasing. As a student, one needs to have basic biological sense since it allows them to learn about their own body, the complex organs and processes inside the body, their connection with other living things and also about how much they are dependent on the non-living things of this world for living. From the start of schooling, basic Biology is

being taught to the students because it has been proved that learning the same from the young age might spark an interest in them and lead them to become more conscious about the environment. Furthermore, this may also help them to choose better Biology related careers when they grow up. Biology is an appropriate subject for the students who are curious about the world and who are more interested in practical works. It helps students to learn about plants and how human life is indebted to the flora for their life. Learning Biology will help them to be more compassionate and responsible to the world.

Learning science is a very active process. One has to be way too conscious while dealing with science. It is not just the mind and brain, but also our hands that are actively involved in learning biological science. Practical approach is chosen over theoretical approach in the teaching-learning of Biological science since it can provide an effective understanding. To learn and to reciprocate science, a student needs process skills like observation, communication, interpretation etc. Without these process skills, learning science is not possible. The students who acquired better process skills will shine brighter than others in biological

science and they will be able to solve biological questions and summarize experimental results faster than others.

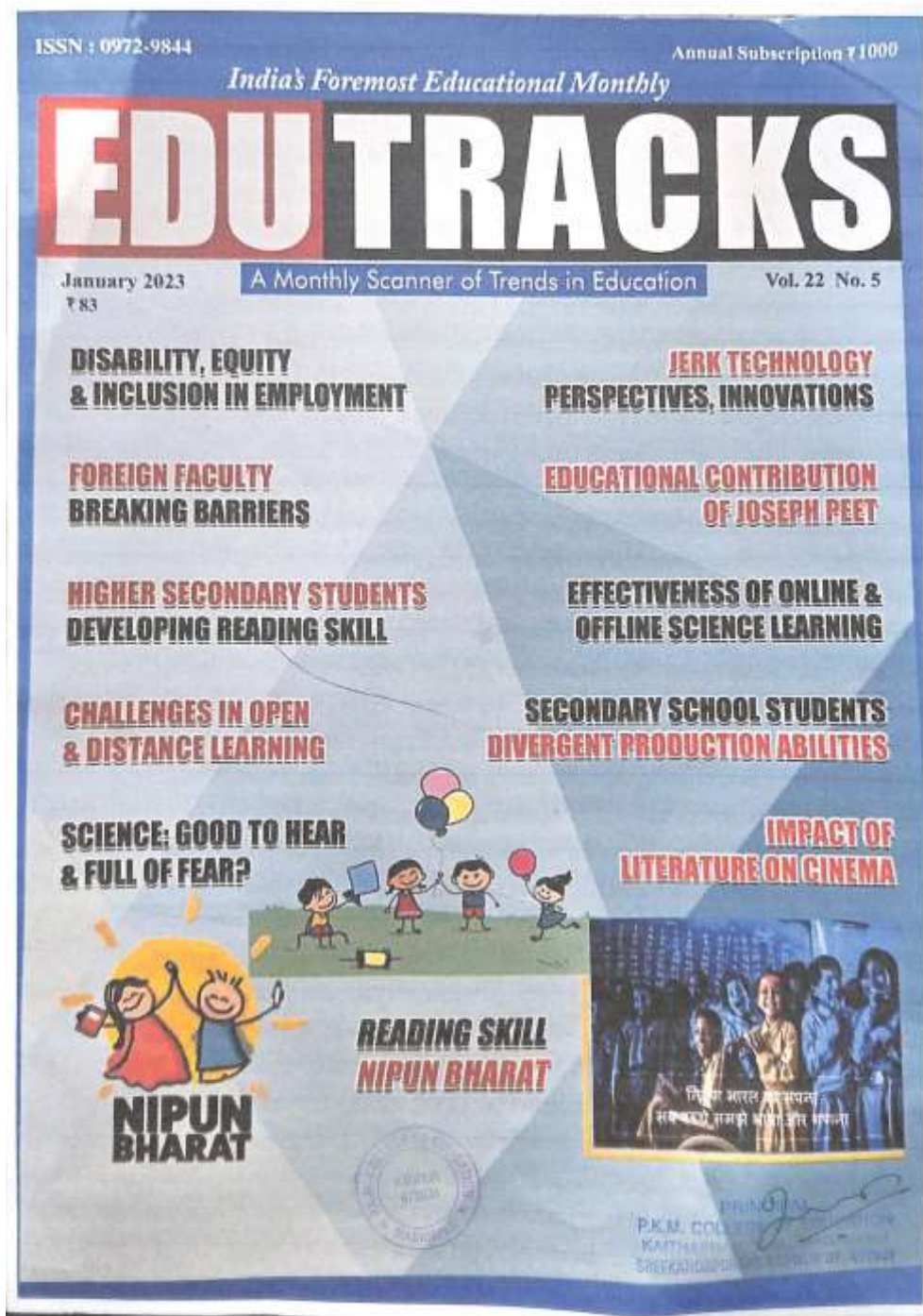
To find out whether these interpretations are right or wrong, Survey method seems to be the most appropriate out of all. Survey research is defined as "the collection of information from a sample of individuals through their responses to questions" (Check & Schutt, 2012 cited in J. Ponto, 2015). As this method provides an opportunity to use it either in quantitative data collection or qualitative data collection, it can well explore human behavior; so it is often used in social and psychological research (Singleton & Straits, 2009 cited in J. Ponto, 2015).

Here the survey method has been used to collect data about a sample of 50 students' response on the questionnaire about 'Impact of study approaches on process outcomes in Biology of 8th standard students of Kannur district'.

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Title of Paper: A Comparative Study on the Relative Effectiveness of Online and Offline Science Learning among Higher Secondary School Students



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A Comparative Study on the Relative Effectiveness of Online & Offline Science Learning among Higher Secondary School Students

INDIAN JOURNAL OF SCIENCE TEACHERS EDUCATION

The objective of this study is to understand the effectiveness of online and offline science learning among higher secondary students. The sudden outbreak of COVID-19 in various parts of the world in 2020 has severely affected the educational system. Students and teachers were constrained to accept the hybrid form of learning and also grasp the interest towards the classes that were conducted online. The study aims to investigate the effectiveness of online and offline science education among students. The study was carried out in Kannur and Kasaragod districts of Kerala with 54 respondents. The study indicates that the effectiveness of online science education is dismal. Teachers and students believed that online teaching is an extension of offline classroom teaching. Effective and appropriate use may help improve the teaching effect, but it is impossible to replace traditional classrooms.

The world has changed in the last few years due to the rare disaster COVID-19. During this time the scholarly world needs to move from customary method of talk conveyance to the online mode. The COVID-19 pandemic changed the strategy, interactions and interrelationship between the teachers and the learners. So, the entire world's teaching-learning community shifted to online mode to escape from the horrible world pandemic.

Leisi Pei and Hongbin Wu, (2019) stated that student motivation, technical issues, time management and limited Internet access are identified as major issues of online classes, which makes the offline education the most popular teaching method. Apart from various problems, online learning has provided benefits for expanding the scope of education and it was the only solution during the pandemic. There are many educational institutes that have initiated virtual classrooms, and smart classrooms before COVID-19. The change in the teaching-learning from traditional teaching of 'Chalk and Talk' to smart classes and

then to totally online classes has shown 360 degree changes, but with these 360 degrees changes the revolution which needs to happen in terms of training mindset of students, teachers and society will slow the process.

Science teaching is conducted primarily in three types of learning environment: classroom, laboratory and outdoors (Orion, Hofstein, Tamir & Giddings, 1997). Science is the systematic study of the structure and behavior of the physical and natural world through observation and experiment. Designing and implementing online science course needs to be considered seriously to minimize problems that students encounter. This paper is an attempt to understand students' performance in online vs offline science subjects.

Research Method

The study examined the relative effectiveness of online Vs offline science learning. For the investigation, an online survey was carried out using Google Form. A survey is a research instrument that contains several questions to collect information through questionnaire, which can be

conducted either online or offline. The data is usually obtained through the use of standardized procedures to ensure that each respondent can answer the questions at a level-playing field to avoid biased opinions that could influence the outcome of the research or study. However, with the arrival of new technologies, it is common to distribute them using digital media such as social networks, email, QR codes, or URLs. A self-structured questionnaire was designed in which the first two questions were used to collect demographic information and remaining 9 questions were used to understand the students' performance in online Vs offline science classes.

In addition to primary data, the existing literature, books and journals provided additional insight into the study area. This survey aims

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Title of Paper: The Effect of change in Medium of instruction in Mathematics Learning of Higher Secondary Students Kannur District in Kerala



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The Effect of Change in Medium of Instruction in Mathematics Learning of Higher Secondary Students in Kannur District in Kerala

Dr. Sholy Joseph K *

Abstract: Problem-solving is an essential skill and it is an interesting activity for those who enjoy it. It is very important whether the learner can understand the descriptions given in the problem or not. The students who selected mathematics as a subject in higher secondary classes in Kerala have to solve a lot of problems in that subject. It is to be remembered that most of the students in Kerala are having their education through Malayalam medium up to tenth class. If they don't have proficiency in English, they will face some difficulties in problem-solving. The use of English as a medium of instruction in higher secondary classes sometimes frustrates the students learning efforts instead of facilitating them. This paper discusses how when the medium of instruction changes, it affects learning Mathematics in higher secondary level students. What are the difficulties of students due to changes in the medium of instruction and also highlights the methods and suggestions to overcome this barrier for better learning.

The goal of education globally is to create a simple, practical, repeatable process of learning. Perfect evaluation, learning, and assessment lead to increasingly better results for schools, teachers, or programs. For the teacher in the classroom, there are opportunities for being creative, reflection, and improvement. Teachers have to solve problems faced by the students as far as possible. The teachers should facilitate systematic and enthusiastic learning in the classroom. Many researchers have encountered pupils who face difficulties in learning mathematics and doing problems due to a lack of language competency in English (Arshad, 1997 & Marsh, Hau, and Kong, 2006).

When we think about the learning situation in Kerala, the students are learning through Malayalam medium or English medium as it is the choice of the child. But when a child reaches the higher secondary class, he/she has to learn in English medium and the child has no other choice. Hence there are well-known practical difficulties and problems with students who studied in Malayalam medium when they move to higher secondary level. The use of English as a medium of

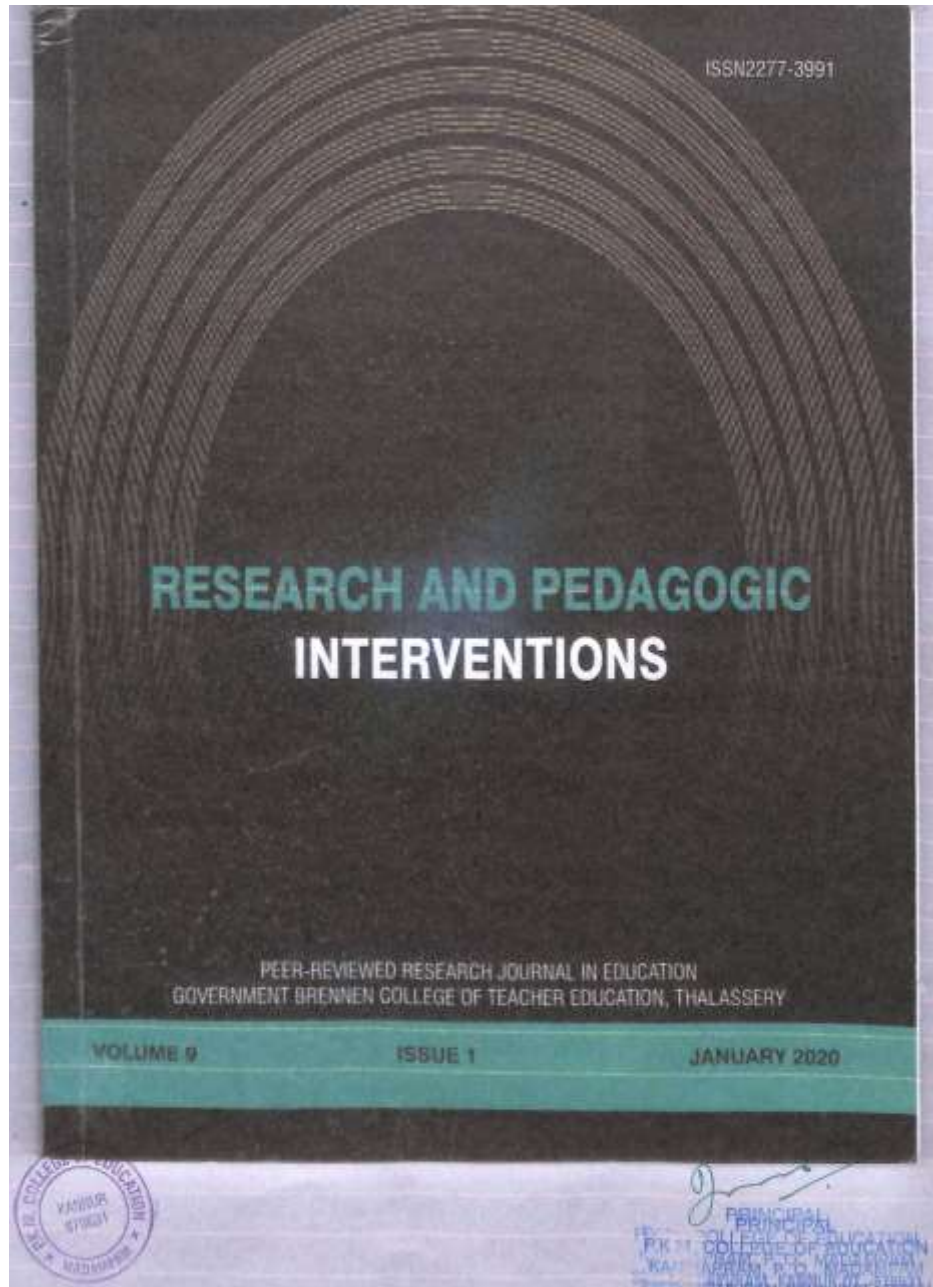


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COMMUNICATION AND PROBLEM SOLVING SKILLS OF SECONDARY STUDENTS IN THE KANNUR DISTRICT

Dr. Sholy Joseph K

Abstract

A well-known definition of problem-solving says that it is the act of defining a problem; determining the cause of the problem; identifying, prioritizing, and selecting alternatives for a solution; and implementing a solution. This study focuses on the oral and written communication and problem-solving skills of secondary students in the Kannur district. The data collected was qualitatively analyzed and as a result, it was found that students who were allowed to write or speak out loud in mathematics discussion exhibited more success in the mathematics classroom.

Introduction

Moving towards the goal of sustainability requires fundamental changes in human attitudes and behavior in this century. Progress in this direction is thus critically dependent on the quality of education and public awareness. Communication is the process of sending and receiving messages, through verbal or nonverbal means including speech or oral communication, writing or written communication, signs, signals, and behavior. More simply, communication is said to be "the creation and exchange of meaning." For the teacher in the classroom, it can provide opportunities for reflection

and improvement, a testing ground for improving the teacher's practice.

Effective communication is perhaps the most important of all life skills. It is found better problem-solving skills for those who have both oral and written communication. This study investigated the impact of oral and written communication, and students problem-solving skills. The investigator collected data to see how oral and written communication affected, the usage of mathematical vocabulary and students' attitudes towards mathematics.

Problem-solving consists of using generic or other methods, in an orderly manner, for finding solutions to prob-

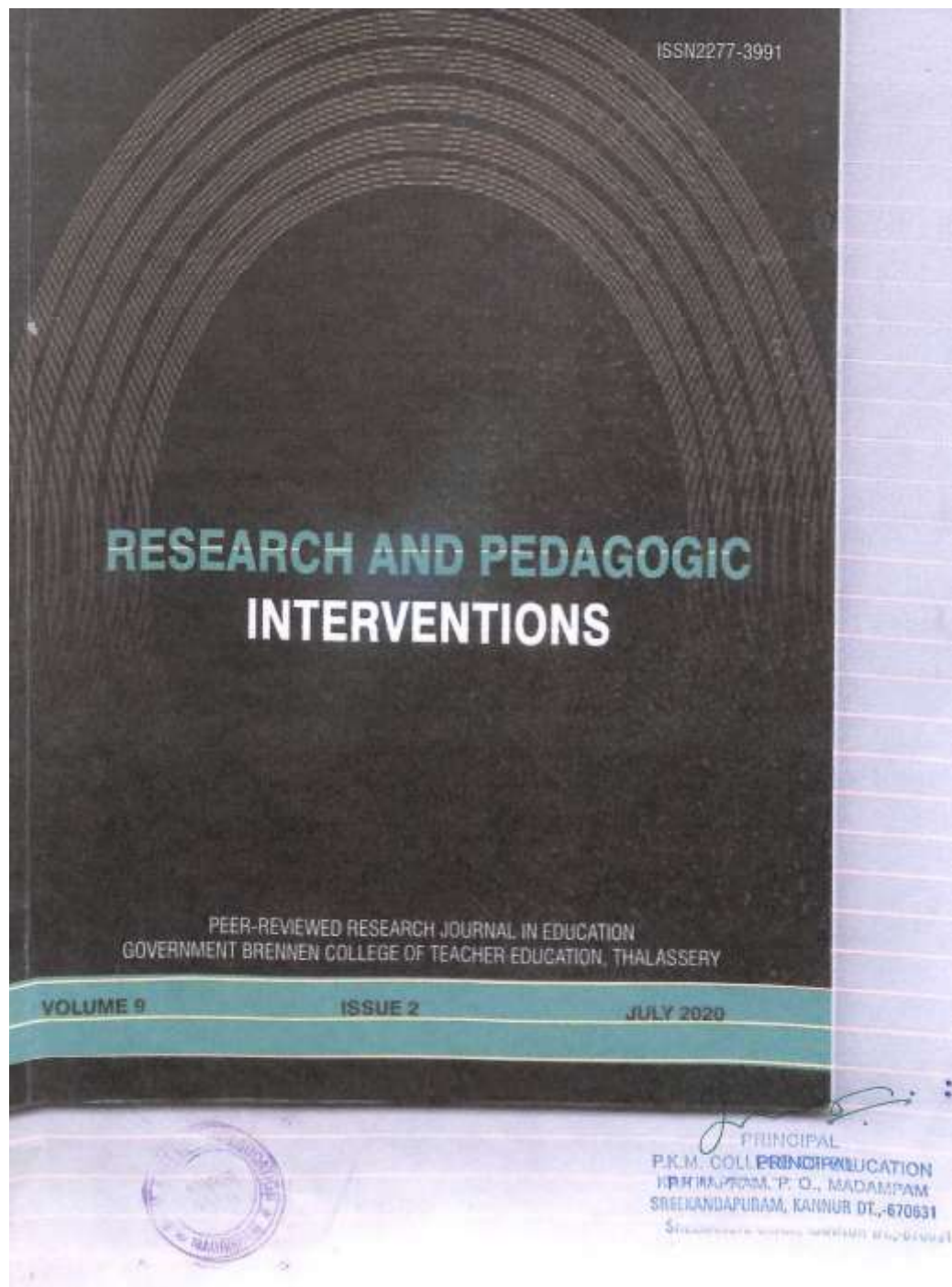
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THE DIFFICULTIES IN DOING DIVISION AND OTHER FUNDAMENTAL MATHEMATICAL OPERATIONS OF SECONDARY STUDENTS IN KANNUR DISTRICT

Dr. Sholy Joseph

Abstract

Mathematics is a compulsory subject from the initial stage of school education, and informally subject is dealt in the pre-primary level also. Therefore, learning Mathematics is important for every person and helps him throughout his life. As Mathematics is a compulsory subject, receiving quality learning in Mathematics is a right for every child. Many pupils feel difficulty in dividing numbers. The students are making too many mistakes when dividing numbers. This inability affects their scores in the examination. This qualitative study is an attempt to find out the difficulties of students in doing division and other fundamental operations and give all possible remedial measures to bring a difference in this inability of students.

Introduction

Mathematics is both an art and a science. It has a sense of outcome, a feeling of rightness, and a sense of catharsis. Everybody needs some knowledge of mathematics in one way or another. Mathematics is a very useful subject for most vocations and higher specialized courses of learning. In this fast advancing technological and computerized world, ignorance of mathematics will be a great handicap in the progress of any nation. It is also

believed that mathematics is an exceptionally difficult subject both to teach and to learn (Cockcroft, 1982) and its study requires special ability and intelligence. Affective, cognitive, and motivational factors are extrinsically linked to the learning, achievement and creativity in mathematics. Ma (1997) recommended that mathematics, especially difficult mathematics content, should be taught in an interesting and attractive manner so that students can enjoy it without feeling that learning mathematics is

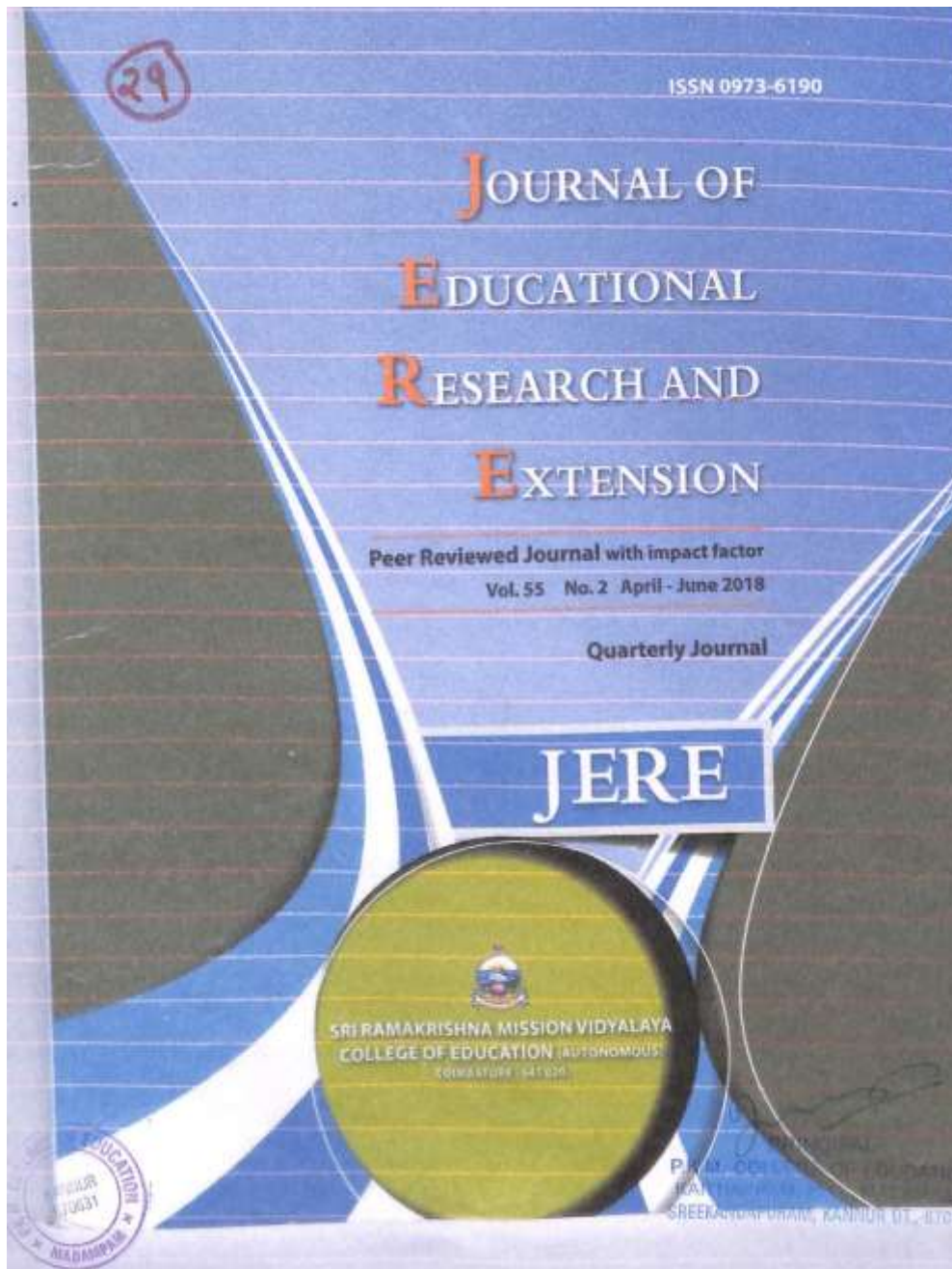
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Title of Paper: Contribution and Strengthening of Women Entrepreneurs in the Modern India



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CONTRIBUTION AND STRENGTHENING OF WOMEN ENTREPRENEURS IN THE MODERN INDIA

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INTRODUCTION

Women's empowerment has become a significant topic of discussion in the recent years. Women form a nation's significant human resource. Women's economic empowerment refers to the ability for women to enjoy their rights to control and benefit from resources, assets, income and their own time, as well as the ability to manage risk and improve their economic status and wellbeing. They should be used as instruments for the growth and development of economy of each and every state. Gender-sensitivity is required in developing production technologies for off-farm enterprises. An improved weaving device in India that required eight hours operation a day to make it profitable was rejected by women who only had two to four hours to spare for this particular activity (Carr, 1991).

Care must be taken in innovating with production technologies so that improved techniques really mean improved benefits for women.

Technological attempts to improve productivity in poultry have effectively removed women from poultry businesses in many countries as men were better able to profit from the innovation (Acharya, 1981). Women's economic empowerment refers to a process by which women expand their ability to succeed and advance economically, and where they have the power to make and act on strategic life decisions in a context where this power was previously denied to them. Many agencies work hard to improve the ability of market systems and other inclusive economic development practitioners to facilitate inclusive, empowering and sustainable services to women across the globe.

GROWTH OF WOMEN ENTREPRENEURS AT THE GLOBAL LEVEL

The acceleration of economic growth requires an increased supply of women entrepreneurs (Shah, 2012). The field of entrepreneurship has recently gained a vast popularity over



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THE DIFFICULTIES IN MATHEMATICAL PROBLEMS SOLVING AMONG SECONDARY SCHOOL STUDENTS IN KANNUR DISTRICT IN KERALA

Dr. Sboly Joseph K.*
Arya Vijaykumar**

Abstract

Mathematics is a skillful, thought provoking and logical ability needed subject, which comes by proper training and proper learning. A successful Mathematician is blessed with complex problem solving skills that they can use in any situation of life. The fundamental goal of all instructions is to develop skills, knowledge and abilities that transfer to tasks not explicitly covered in the curriculum. A secondary goal of Mathematics teaching and learning is to develop the ability to solve a wide variety of complex problems. Problem solving was one of the major aspect in Mathematics curriculum which required students to apply and to integrate many mathematical concepts and skills as well as making good decisions. In this study, therefore, the investigator made an attempt to identify the difficulties while solving mathematical problems and is designed to find out the difficulties and how it affects the student's achievement.

Key Words: Problem Solving, Secondary School Students.

Introduction

Mathematics plays a very important role in our daily living. It is a subject that deals with the problems, which involve a process of analysis, computation and other mental skills. Historically, learning Mathematics and teaching it has been motivated by the belief that the study of Mathematics helps individual to learn, to reason and to apply such reasoning to everyday problems. This

matter, Mathematics develops the mind to think critically and analytically. It is more than counting, measuring, and computing. It is an eye opener to all sciences. As far as Mathematics instruction is concerned, the major goal is the involvement of the students in the process of discovering mathematical ideas and formulating process.

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An Analytical Study on Role of Secondary School Biology Text Books on Environmental Education

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Abstract

Environmental education is the process that equips human beings with awareness, skills, attitude or commitment to improve his environment. It has great significance on different education levels from primary to higher education level. Here the researcher tried to analyze secondary school biology text books. While assessing revised syllabus it was found that even the secondary level biology text books lacks the relevance of environmental education. While analyzing the topics in 8th, 9th, & 10th standard biology texts from the year 2008 onwards it has been found that relevance of environmental education is being ignored. Since 2009, 9th & 10th standard biology topics incorporated EVS topics such as biosphere, biodiversity etc. Afterwards syllabus shows no attention in these areas. The 8th standard topics tried to meet an introduction to ecology even now, where it denies the relevance on environmental hazards, environmental management and significance on environmental conservation. Years back biology text books tried to meet awareness, attitude, skills & commitment of environment through the inclusion of EVS topics. But the present trend in biology is very sorrowful, were climate change is in its peak. Environmental Education is the only weapon to overcome the present environmental crisis by educating the young minds from grass root level. Through varieties of instructional objectives, activities and teaching learning strategies a new curricular adaptation is required in this field for advancement of environmental education at each education levels. We should use Biology subject as a powerful tool to conserve our earth and it is not only for us but also for our future generations.

KEYWORDS: Environmental Education, Secondary School, Biology Text Book.

Introduction

The education system in India had incorporated certain aspects of environment in school curricula as early as 1930. The Kothari commission (1964-66) also suggested that basic education had to offer EE and relate it to the life needs and aspirations of the people and the nation. Environmental education at primary, secondary, higher secondary levels were treated in a different way. Environmental education is an essential part of every pupil's learning. It helps to encourage awareness of the environment, leading to informed concern for active participation in resolving environmental problems. It needs to introduce without any delay from class -1 as EVS, as a subject so that right from their childhood, the right attitudes towards environment will be nurtured in the young minds. The curricular, cross-curricular attempt of environmental education also should be a joy for the learner.


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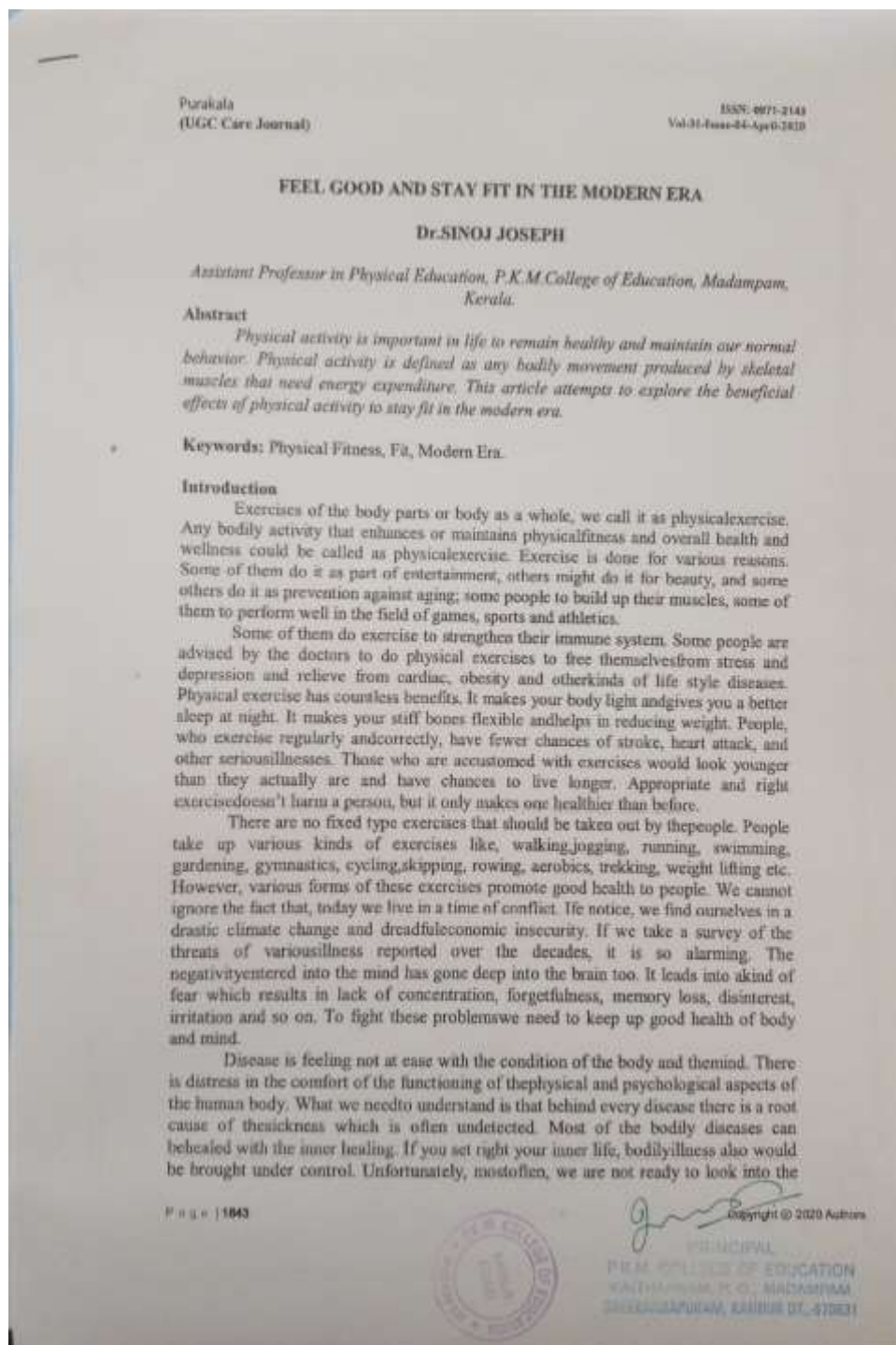
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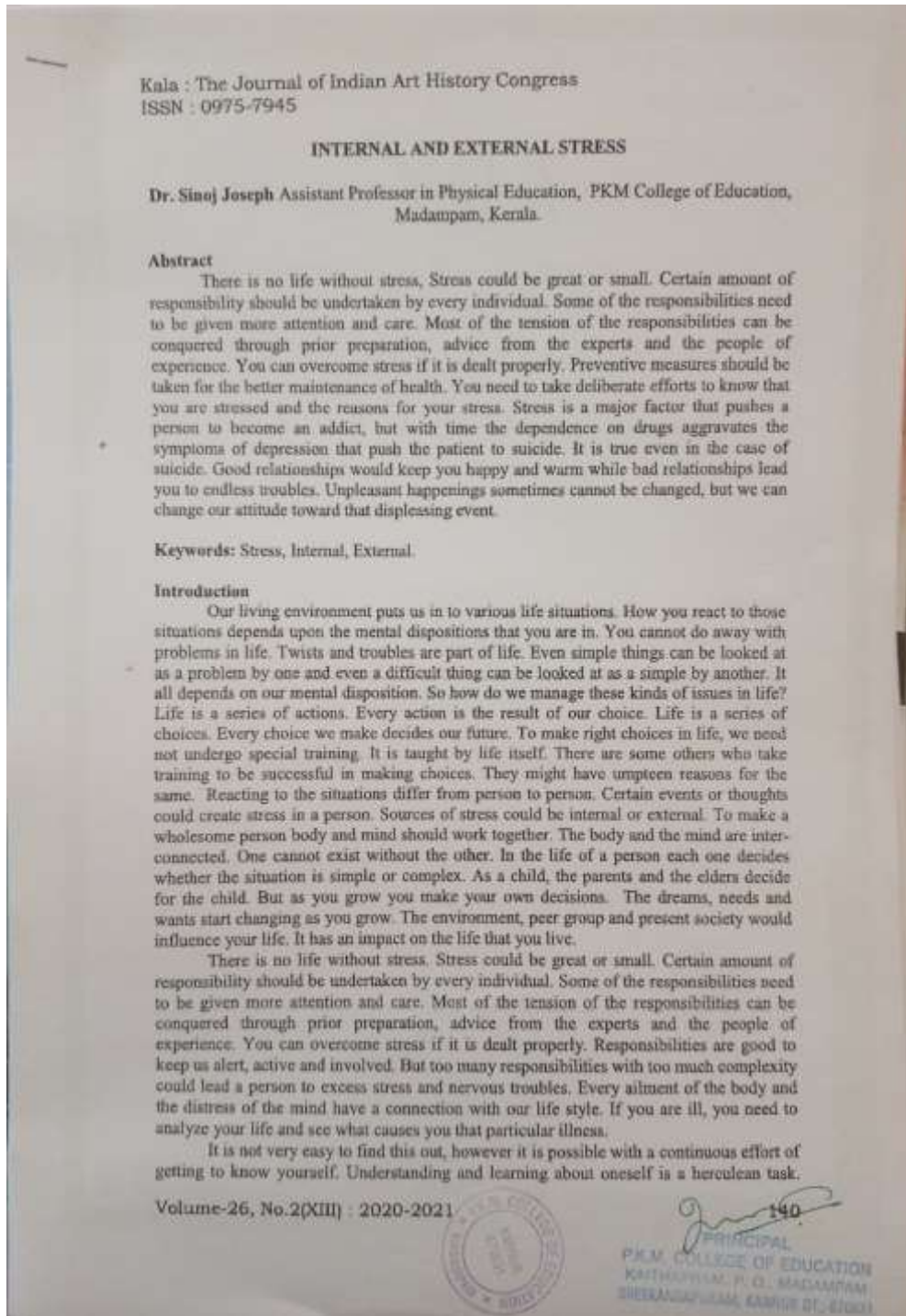
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