

KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)



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PG & RESEARCH DEPARTMENT OF ENGLISH

ONE DAY VIRTUAL CONFERENCE ON CULTURAL REPRESENTATIONS IN 21ST CENTURY LITERATURE

This is to certify that

Agarsana TK

I M.A English Literature, Kongu Arts and Science College (Autonomous), participated and presented a paper on the topic "Pains and Pleasures: Paradox in Bernard Dadie's 'I Thank You God' and E. E. Cummings 'I Thank You God for Most this Amazing'" held on 12th June 2021 organized by PG & Research Department of English, The New College in collaboration with Alpha Researchers' Academy.

Prof. A. Syed Sarmadh Ahmed Head i/c. Department of English The New College Prof. S.A. Sheik Mohamed Vice-Principal (Academic) The New College

Dr. S. Basheer Ahamed Principal & HOD of English The New College







Two Day Bodhi International Online Conference on

LANGUAGE, LITERATURE AND LINGUISTICS

27" & 28" August 2021

Organized by —

Department of English & Other Foreign Languages SRM Institute of Science and Technology Deemed to be University u/s 3 of UBC Act, 1956

Ramapuram Campus, BharathiSalai, Ramapuram, Chennai www.srmrmp.edv.in BODHI International Journal of Research in Humanities, Arts and Science (BIJRHAS) An online, peer reviewed, Refereed and Quarterly Journal, India www.bodhijournals.com

This is to certify that Dr./Mr./Ms.

AGARSANA T K

M. A. English Literature

Kongu Arts And Science College(Autonomous), Erode

Presented a paper on

DIFFERENT PERSPECTIVE OF HUMAN WORLD & INFLUENCE OF MOTHERHOOD

IN MARGARET ATWOOD'S POEM "YOU BEGIN"

in the International Online Conference on

LANGUAGE, LITERATURE AND LINGUISTICS on 27 & 28 August 2021

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Dr. V. REMA
Professor & Need
Department of English and Other Foreign Langua
SRM Institute of Science and Technology
Ramapuram, Chennol, Temil Nadu

B.S. SAVITHA

Dr. S. SAVITHA
Assistant Professor (Selection Grade)
Department of English and Other Foreign Languages
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Ramaporum, Chennol, Tamil Nadu

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Siva Prakash This is to certify that Mr. f. Ms.

of Kongu CAS

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Inspired Innovators

and won

1st

in 'TECHNOMINNZER' an

has

Intercollegiate Technical Meet organized by the Department of Information Technology, held on 5"February 2021.

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KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), ERODE - 638 167 DEPARTMENT OF BIOCHEMISTRY STUDENTS PUBLICATION DETAILS

ACADEMIC YEAR 2020 - 2021

S. No	Name of the Students (Authors)	Class / Batch	International / National	Name of the Journal	Title of the Paper	Month & Year	Volume & Issue	CL-COSES AS SHOWN	Impact Factor	ISSN	Under the Guidance of
ì	Ms. V.G.Lavanya, Ms.N.Dharani & Mr.T.G.Nagulan	II M.Sc	International (Peer Reviewed)	International Journal of Current Science Research and Review (UCSRR)	Grapes (Vins Vitacear) - Potent Medicanal Fruit serves as a Source of Antioxidants and Antibacterial agent	Aug-20	V - 03 & 1 - 08	70 - 81	6.595	2581-8341	Mr. G. Karthikeyan
_	Ms.M.Eureka & Ms.J. Amalsiya Bernath	II M.Sc	International (Peer Reviewed)	International Journal of Multidisciplinary Research and Analysis (UMRA)	Characterisation of Phytochemical Constituents, Antioxidant and Anti Bacterial Properties of Red Strawberry against Klebsiello and Streptococcus	Sep-20	V - 03 & I - 09	108 - 113	5.522	2643-9875 (Online)	Mr. G. Karthikeyan
	Mr. S. R. Dharanidharan	II M.Sc	International (Peer Reviewed)	International Journal of Current Research	Physochemical Screening and Antibacterial activity of Neem seed (Anadirochia indica) and Production of Homemade soap	Feb-21	V - 13 & I - 02	16274 - 16280	7.776	0975-833X	Mrs. T. Radha



Available online at http://www.journalcra.com

INTERNATIONAL JOURNAL OF CURRENT RESEARCH



International Journal of Current Research Vol. 13, Issue, 02, pp.16274-16280, February, 2021

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RESEARCH ARTICLE

PHYTOCHEMICAL SCREENING AND ANTIBACTERIAL ACTIVITY OF NEEM SEED (AZADIRACHTA INDICA) AND PRODUCTION OF HOMEMADE SOAP

1, Ms. Radha, T. and Mr. Dharanidharan, S.R.

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Azadirachtaindica, Phytochemical, Antibacterial activity.

ABSTRACT

The different parts of neem tree contain various active compounds which are rich in antibacterial activity. The present study highlights the phytochemical analysis of neem seed. Various bioactive compounds like alkaloids, flavonoids, coumarin, leucoanthocyanin etc., were present in aqueous and acetone extract of neem seeds. A soap must cleanse the body properly without disturbing thepH level of the skin. As per the results and discussion of the present study, neem seeds contain antibacterial activity and it also has appreciable quantity of oil. So preparing the soap using neem seed destroys the microorganism which keeps our skin safe and healthy. The homemade neem soap can be replaced with other synthetic soaps for better results

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INTRODUCTION

Neem is mainly cultured in Indian subcontinent. Which is considered as a sacred gift of nature, it is a kind of omnipotent tree. It is referred as Azadirachtaindica (A.indica) botanically. United Nations declared this incredible plant as a "Tree of 21st century" (16). Neem tree has numerous biological and neurological activities include antibacterial (22), antifungal (2) and anti-inflammatory activity. It is a flowering plant and it starts fruiting after 3-5 years, it grows approximately up to 25 meters and has semistraight trunk (33). It has gained the distinction of being the most researched tree in the World. Neem product extracts shows repellent, anti-feed ant, insect growth regulatory (IGR), and fitness reducing properties on insects (33). In addition to these activity the neem products are bitter and has anti-fungal, anti-viral, verified compounds antispasmodic, antiseptic, antipyretic and anti-diabetic activities (25). In about 10 years the tree becomes fully productive. It can produce up to 50 kg of fruits annually, after attaining tenth years and onwards. (19). Neem seed are bactericidial against gram negative and gram positive pathogens, and thus have a broad spectrum activity; they also have a synergistic interaction in combination with antibiotics (37).

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Science College, Erode.

There by scientists reveal that neem seed weighs average of 0.28g, which of 50.89% kernel and 49.11% hull. It contains 29.27% of lipids, 12.10% of protein and 43.28% of parietal constituent (43).

MATERIALS AND METHODS

The present study mainly deals with the analysis of phytochemical constituents and antibacterial capacity found in seed of Azadirachtaindica and broadly evaluate its biochemical constituents, element composition and some secondary metabolites using standard protocols as follows.

COLLECTION AND PROCESSING OF SAMPLE

The Neem seed (Azadirachtaindica) was collected from different neem tress in the Erode local area and it was washed separately to eliminate dust and other foreign particles and subjected to shade drying for about 15 to 20 days. The dried neem products as further crushed to powder using mixer or blender and the powder was stored in air tight container.

PREPARATION OF EXTRACT: The powdered neem seed (Azadirachtaindica) was mixed with solvents (Water, Acetone) in the ratio of 1:10 (gram: millilitre). The mixture was placed in 250ml conical flask with Teflon lids. The flask was placed in rotator shaker for 24 hours.

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Grapes (Vitis Vitaceae) - Potent Medicinal Fruit Serves as a Source of Antioxidants and Antibacterial Agent

Mr. G. Karthikeyan1, Ms. V. G. Lavanya2, Ms. N. Dharan2, Mr. T. G. Nagulan4

Assistant Professor, Department of Biochemistry, Kongu Arts and Science College (Autonomous), Erode

ABSTRACT: In plant kingdom, medicinal plants are main important resource for a variety of drug like emetics, anti-cancer and antimicrobials. Medicinal herbs are highly cultured in India, which includes more than 2000 species are present. Grapes are soft fruit crop belongs to the Family of Vitaceae and Genus of Vitis. Grapes contain excellent source of nutritional values such as vitamins, minerals, proteins and carbohydrate. In this present work, various phytochemical constituents of grapes were identified in different extracts (Ethanol, Acetone and Aqueous). These phytochemicals are used for the treatment of several diseases. The antioxidant property of different extracts of grapes shows better result. The ellagic acid and the natural phenolic antioxidants were also identified. The antimicrobial activity of various grapes extract shows better result against Enterococcus and E.coli sps. Finally, the grape fruit is a wonderful antioxidant and antimicrobial agent.

KEY-WORDS: Antibacterial, Ellagic acid, phytochemicals, Antioxidants.

1. INTRODUCTION

geographical area with high potential abilities for Ayurveda, Siddha traditional medicines [2]. But only very few have been studied chemically and pharmacologically for their potential medicinal value. Medicinal plants are important with respect to new drug and pharmacological research development. These medicinal plants are used in the treatment of many infectious diseases. Researchers are turning their attention to natural products to develop better anticancer, antiviral and antibacterial drugs. The antimicrobial properties of medicinal plants are being increasingly reported from different parts of the world [10,2]. In this study traditional human uses of plants, is recognized as an effective way to discover further medicines. From the recent researches, 122 compounds are identified and derived from traditional plants sources which are used in modern medicine. All parts in a plant possess the medicinal values such as leaf, stem, fruits, buds, roots, etc [5]. Now we are ready to use the grape fruits (vitis vinifera) as medicinal herbs because it was consumed either as fruit or juice by every individual day by day without knowing their medicinal values. Grapes are considered to be a berry. In the wild species it is 6 mm (0.24) diameter and ripens dark purple to blackish with a pale wax bloom. The wild grape is classified as vitis vinifera sub species. Ayurveda has been recognized the medicinal value of grape. Common name: Grape; Type: Tree; Height: 115feet; Water: Medium; Fruit: Edible; Kingdom: Plantae; Order: Vitales; Binomial name: Vitis vinifer [15].

Grapes are good source of vitamin C and K. They also contain protein, carbohydrates, dietary fiber and minerals [6]. Grape is a one of the most popular fruit and contain large amount of phytochemicals such as phenolic acid, flavonoids, tannins, anthocyannins, cyanidin, ellagic acid, proanthocyanidins which offer health benefits [8]. The anthocyanin present is responsible for the different colours of grape fruit like black, red and purple. Different parts of the plants could be used for a fever, diarrhea and ulcer [7]. The grape fruits must have antioxidant capacity used to treat many various rare diseases. It also serves as an antimicrobial agent because they have many secondary metabolites [11]. The aim of the work is to study the phytochemical analysis in different extracts of grapes (fruit) and to study its effect as anti-oxidant and antimicrobial activities.

2. MATERIALS AND METHODS

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2.1. Collection and Extraction of the grape fruit

The fruit of Vitis vinifera was collected from erode local market, Tamil Nadu. The fresh plant material is extracted using soxhlet assembly and successively with ethanol, acetone and distilled water. Finally the plant material is macerated with distilled water. The extracted material is concentrated by evaporation.

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Characterisation of Phytochemical Constituents, Antioxidant and Anti Bacterial Properties of Red Strawberry against Klebsiella and Streptococcus

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ABSTRACT

In plant kingdom, medicinal plants are main important resource for a variety of drug like emetics, anti-cancer and antimicrobials. Medicinal herbs are highly cultured in India, which includes more than 2000 species are present. Strawberry is soft fruit crop belongs to the family rasacea and genus fragaria and it contain excellent source of vitamins, potassium. Phytochemical constituents are identified in different extract (ethanol, acetone and aqueous). Secondary metabolites are used for the treatment of several diseases. Strawberry is the one of the best natural sources of antioxidants. Total antioxidant capacity was identified in all the extracts. Antibacterial activity of fragaria x ananassa was evaluated against and Klebsiella and Streptococcus. From this study, concluded that the strawberry fruit have potent medicinal value.

1. INTRODUCTION

India has a rich culture of medicinal herbs and spices which includes about more than 2000 species and has a vast geographical area with high potential abilities for Ayurveda, unani, siddha traditional medicines [2]. A plant makes many chemical compounds for biological function and including defence against insects, fungi and herbivorous mammals. Plants have a great importance in our lives because they fulfil our basic needs for food, shelter, clothing, fuel, ornamentals, flavouring and medicine [8]. Plant-derived materials or products with therapeutic properties are known as herbal medicines, they may contain processed or raw ingredients from one or more plants that are beneficial for human health [20].

People use herbs to treat different diseases because they are cheap and effective, but doctors are often reluctant to prescribe them because of knowledge deficiency, real concerns [12]. In this study, traditional uses of plant are recognized as an effective way to discover further medicines. There are many parts in plants such as leaf, stem, fruits, buds, roots, etc., now we are ready to use the fruits of strawberry (fragaria x ananassa) as medicinal herbs (Common name: Strawberry; Kingdom: plantae; Type: plant; Height: 10 - 12 inches (~25-30cm); Bloom time: February; Fruit: Edible; Order: Rosales; Subfamily: Rosacea; Genus: Fragaria; Species: Fragaria x ananassa) [9].

Strawberry (fragariax ananassa duch) is a soft fruit crop. Strawberries are unique with highly desirable taste, flavour, and excellent source of vitamins, potassium, fibre and sugars. As compared to other berry fruits, strawberries contain a higher percentage of vitamin C, Phenolics and flavonoids. Strawberry fruits are characteristics aroma bright red colour, juicy texture and sweetness [17]. It is consumed in large quantities, either fresh or in such prepared foods as preserves, fruit juice, ice creams and milk shakes. Nutritional and health aspects of fruit, they present alkaloids, flavonoids, carbohydrate, terpenoids, phenois makes the antioxidant potential as a well as protect some diseases as cancer or heart disorders.

The present investigation is almed to characterize the medicinal effect of strawberry fruits using phytochemical analysis, antioxidant property and antibacterial activity [5].

2. MATERIALS AND METHODS

The present study deals with the study of phytochemical constituents, antioxidant capacity and antibacterial activity of fragaria x ananossa fruit.

2.1. Collection of Fruit

The Fragaria x ananassa (Strawberry) fruit was collected from erode local market and stored in refrigerator.



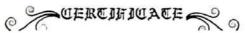
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Department of Food Technology

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STUDENTS ACHIEVEMENT RECORD

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DEPARTMENT: BIOTECHNOLOGY

ACADEMIC YEAR: 20020 2020 - 2021

S.No.	Reg. No.	Name of the Candidate	Class & Section	. Organiser	Date .	Event	Place Secured
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GENETIC DISEASE AND DISORDER UTHIRALAKSHMI A

BSC BIOTECHNOLOGY

KONGU ARTS AND SCIENCE COLLEGE ERODE TAMILNADU

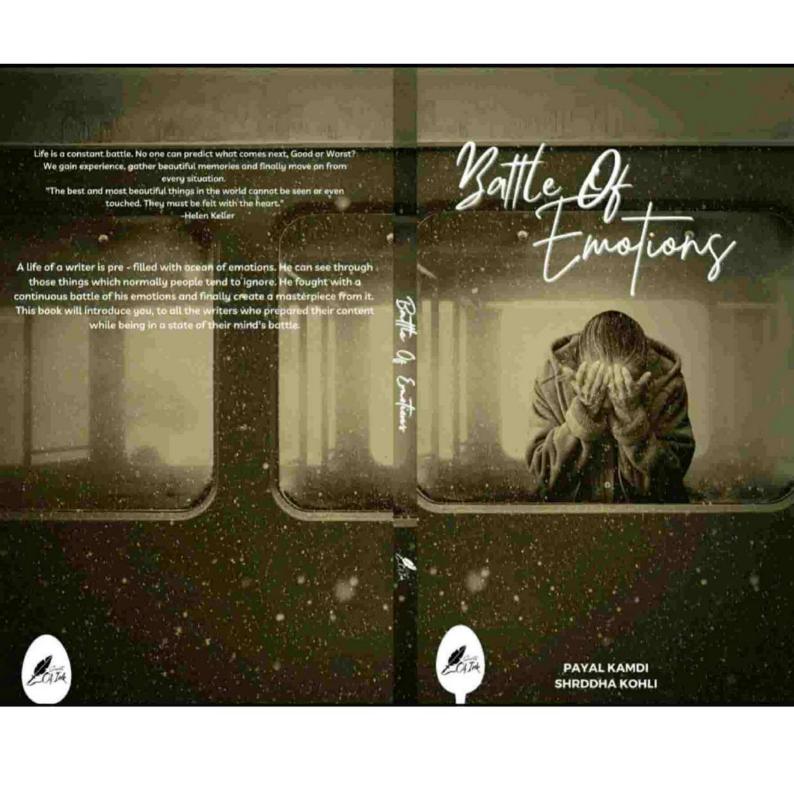
uthiralakshmiannadurai@gmail.com

GENETIC DISORDER:

A genetic disorder is a disease caused in whole or in part by a change in the DNA sequence away from the normal sequence. Genetic disorders can be caused by a mutation in one gene (monogenic disorder), by mutations in multiple genes (multifactorial inheritance disorder), by a combination of gene mutations and environmental factors, or by damage to chromosomes (changes in the number or structure of entire chromosomes, the structures that carry genes).

As we unlock the secrets of the human genome (the complete set of human genes), we are learning that nearly all diseases have a genetic component. Some diseases are caused by mutations that are inherited from the parents and are present in an individual at birth, like sickle cell disease. Other diseases are caused by acquired mutations in a gene or group of genes that occur during a person's life. Such mutations are not inherited from a parent, but occur either randomly or due to some environmental exposure (such as cigarette smoke). These include many cancers, as well as some forms of neurofibromatosis.

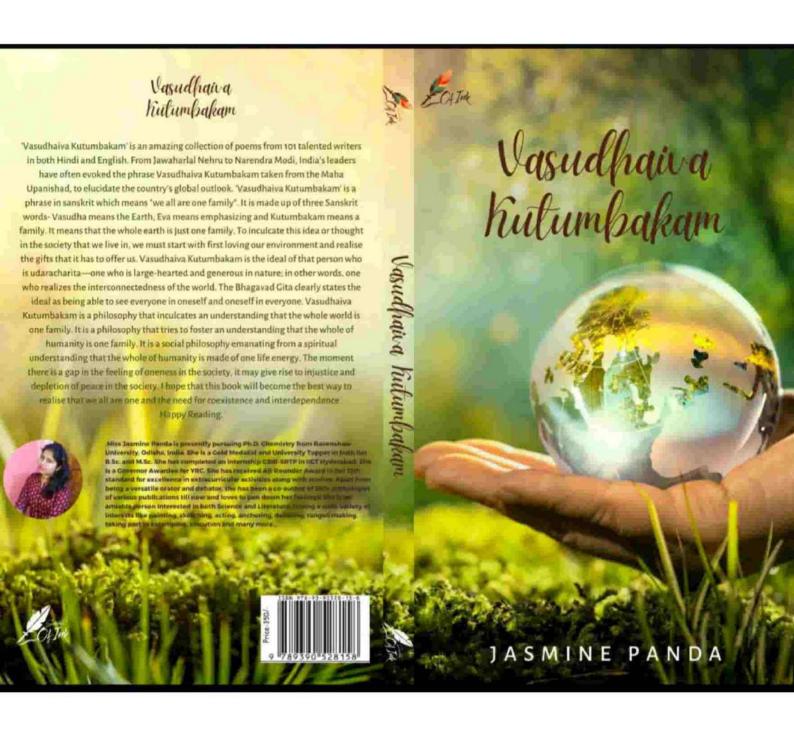
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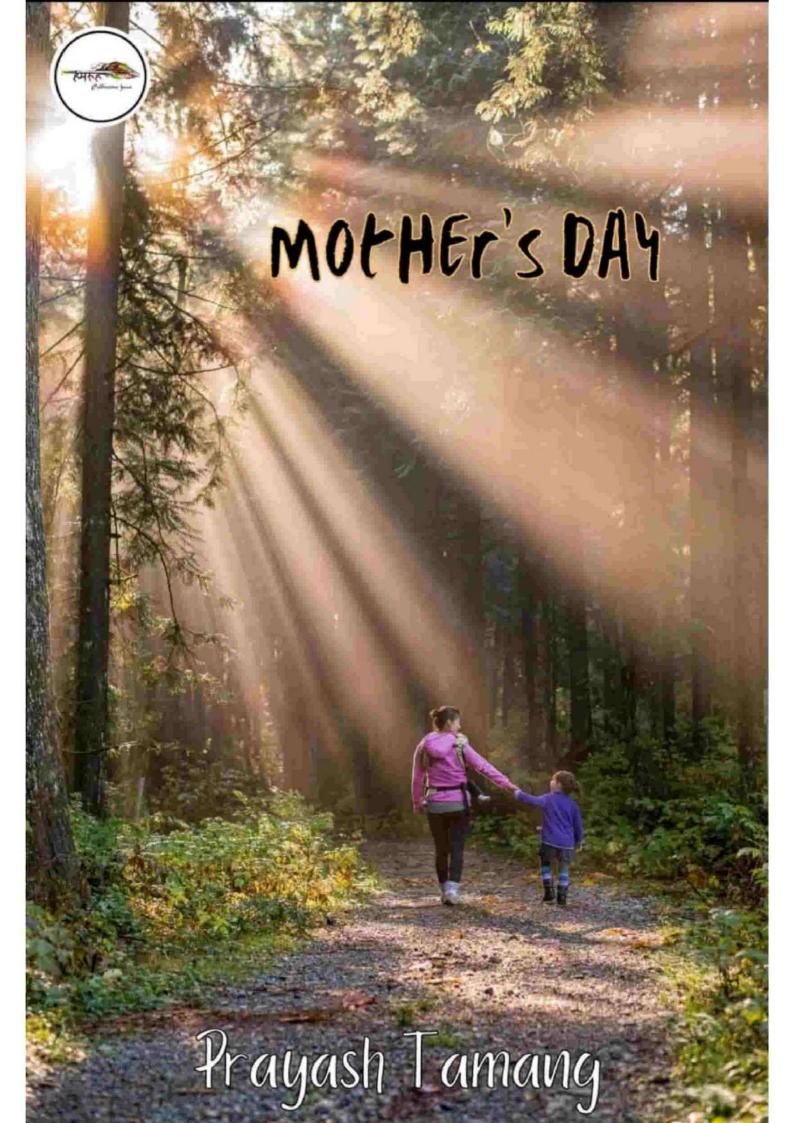
- 10. Aliya Siddiqua
- 11. Ambrose Christopher
- 12. Amruta Digambar Matkar
- 13. Anand Jain
- Anand Mishra
- Ankit Shekhar
- Ankita Mishra
- 17. Ankita Nahar
- 18. Anmol Chugh Dildard
- Anshuk Dwivedi "Ranghin"
- Anuradha Gupta
- 21. Anushka Sangari
- Anyesha Deb
- Aprajita Gangwar
- 24. Arleen Kaur
- 25. Ashirwad Singh
- Baisakhi Das
- 27. Bhawna Mehta
- Bishneet Kaur
- Darpan Gupta
- Devraj Pimputkar
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- Diva Jain
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- Dr. Payal Sanjay Chaudhari
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- Gunjan Jogia
- Gunwanti Harish Thanvi
- Guri . S Rameana
- Hari Prasad S
- 40. Harshita Chauhan Verma
- 41. Harshita Hardiya
- 42. Harshita Verma
- 43. Himani Malhotra
- 44. Himani Sharma
- 45. Iasmine Panda
- 46. K Kartik Patnayak
- Kalamkaar
- 48. Karan Bhanushali
- 49. Karan Yadav
- 50. Karil Anand
- Kashish Grover
- Komal Arora
- Likhitha Batchu
- M. Harshini
- 55. Madhumita
- Manoj Sadanand Sharma

BETRAYAL

Don't forgot one thing
If your friend helps you at first for you
And unable to help you at last for you
Don't betrayal them by opposing them
Think about their help they did for you.



- 2). Kareena Verma
- 3). Bibek Nayak
- 4). Sharmistha Dey
- 5). Anika Jain
- 6). Kalamkaar
- 7). Nikhil Jain
- 8). Abhishek Mishra
- 9). Noel Lorenz
- 10). Naveen Bharadwaj
- 11). Sneha Saxena
- 12). Neha Jha
- 13). Kapil Sahare
- 14). Manjeet kumar Shaw
- 15). Satyaranjan Ghiwalla
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- 17). Shatakshi Mishra
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- 19). Udayan Chetia
- 20). Sarat Chandra Panda
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- 26). Simpy Goel
- 27). Rida Fatima
- 28). Shreya Pathak
- 29). Nilofar Farooqui Tauseef
- 30). Inam Ul Hasan
- 31). Supriya Srinivasan
- 32). Gajendra Thakur
- 33). Saswat Kumar Sahu
- 34). Shareena Ahmed
- 35). Bandita Sahu
- 36). Devesh Kumar Mishra
- 37). M. Harshini
- 38). Sanjit Kumar Shaw
- 39). Ritika Rajput
- 40). Chinsha Bhatia
- 41). Afshi Khan



English Write-ups

"Soulful Companion"

I am not in the world
Without your affection
I loved you a lot in this world
in my entire life.

Sometimes you also hurt me

But, I am not sad
because you are my everyone for me

You are like a dad

Sacrifices a lot in life.

When I am sad
When I am happy
When I am embarrassed
All the situation you are with me
I love you a lot
My dear amma.

-M. Harshini