IIT JEE Results and the situation in Bangalore

Simplified Knowledge Management Classes Bangalore

My name is [Subhashish](#) [Chattopadhyay](#). I have been teaching for IIT-JEE, Various International Exams (such as IMO [International Mathematics Olympiad], IPhO [International Physics Olympiad], IChO [International Chemistry Olympiad]), IGCSE (IB), CBSE, I.Sc, Indian State Board exams such as WB-Board, Karnataka PU-II etc since 1989. As I write this book in 2016, it is my 25 th year of teaching. I was a Visiting Professor to BARC Mankhurd, Chembur, Mumbai, Homi Bhabha Centre for Science Education (HBCSE) Physics Olympics camp BARC Campus.

I am Life Member of …

- **IAPT (Indian Association of Physics Teachers)**

- **IPA (Indian Physics Association)**

- **AMTI (Association of Mathematics Teachers of India)**

- **National Human Rights Association**

- **Men's Rights Movement (India and International)**

- **MGTOW Movement (India and International)**

And also of

IACT (Indian Association of Chemistry Teachers)

The selection for National Camp (for Official Science Olympiads - Physics, Chemistry, Biology, Astronomy) happens in the following steps ….

1) **NSEP** (National Standard Exam in Physics) and **NSEC** (National Standard Exam in Chemistry) held around 24 rth November. Approx 35,000 students appear for these exams every year. The exam fees is Rs 100 each. Since 1998 the IIT JEE toppers have been topping these exams and they get to know their rank / performance ahead of others.

2) **INPhO** (Indian National Physics Olympiad) and **INChO** (Indian National Chemistry Olympiad). Around 300 students in each subject are allowed to take these exams. Students coming from outside cities are paid fair from the Govt of India.

3) The Top 35 students of each subject are invited at HBCSE (Homi Bhabha Center for Science Education) Mankhurd, near Chembur, BARC, Mumbai. After a 2-3 weeks camp the top 5 are selected to represent India. The flight tickets and many other expenses are taken care by Govt of India.

Since last 50 years there has been no dearth of "Good Books". Those who are interested in studies have been always doing well. This e-Book does not intend to replace any standard text book. These topics are very old and already standardized.

There are 3 kinds of Text Books

- The thin Books - Good students who want more details are not happy with these. Average students who need more examples are not happy with these. Most students who want to "Cram" quickly and pass somehow find the thin books "good" as they have to read less !!

- The Thick Books - Most students do not like these, as they want to read as less as possible. Average students are "busy" with many other things and have no time to read all these.

- The Average sized Books - Good students do not get all details in any one book. Most bad students do not want to read books of "this much thickness" also !!

We know there can be no shoe that's fits in all.

Printed books are not e-Books! Can't be downloaded and kept in hard-disc for reading "later" ....

So if you read this book later, you will get all kinds of examples in a single place. This becomes a very good "Reference Material". I sincerely wish that all find this "very useful".

Students who do not practice lots of problems, do not do well. The rules of "doing well" had never changed …. Will never change !

After 2016 CBSE Mathematics exam, lots of students complained that the paper was tough!

IIT JEE Results and the situation in Bangalore

CBSE assures remedial measures for tricky and tough Class XII Math paper

Posted on: 12:17 PM IST Mar 17, 2016 | Updated on: 12:20 pm,Mar 17,2016 IST

IBNLIVE.COM

14   More+

After several students claimed that the Central Board of Secondary Education (CBSE) Class XII board Mathematics examination paper was 'tricky' and tough, the board has issued a clarification on remedial measures which are likely to be taken before evaluation.

The CBSE says that feedback received from various stakeholders like students, subject teachers and examiners will be put before the committee of subject experts.

On 21 st May 2016 the CBSE standard 12 result was declared. I loved the headline

IIT JEE Results and the situation in Bangalore

CBSE Class 12 Results out: No leniency in Maths paper, high paper standard to be maintained in future

The CBSE Class 12 Mathematics board exam on March 14 reduced many students to tears as they found the paper quite lengthy and tough and many couldn't finish it on time. The results show an overall lowering of marks received in the Maths paper.

RELATED STORIES

- CBSE Board result 2016 declared! Thiruvanathpuram obtains the highest part percentage, check how your region scored
- Meet CBSE topper Sukriti Gupta: Check her percentage here!
- CBSE Class 12 Boards 2016: Results announced ahead of time!
- CBSE results declared at www.cbse.nic.in: Steps to check online
- Exclusive! CBSE declares Class 12 Results at www.cbseresults.nic.in and cbse.nic.in

The CBSE (Central Board of Secondary Education) Class 12 Board exam results have been announced today, i.e on May 21, around 10:30 am ahead of time. Students may check their scores at the official website, *www.cbseresults.nic.in*. **(Read: CBSE Class 12 Boards 2016: Results announced ahead of time! Check your score at cbseresults.nic.in)**

In 2015 also the same complain was there by many students

News » India News

CBSE Class 12 exam: Issue of tough maths paper raised in Parliament

A senior Congress member on Thursday raised the issue of the tough mathematics question paper in the ongoing CBSE board examinations and asked the government to consider the issue "seriously".

Last Updated: Thursday, March 19, 2015 - 14:41

2547 SHARES

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New Delhi: A senior Congress member on Thursday raised the issue of the tough mathematics question paper in the ongoing CBSE board examinations and asked the government to consider the issue "seriously".

So we see that by raising frivolous requests, even upto parliament, actually does not help. Many times requests from several quarters have been put to CBSE, or Parliament etc for easy Math Paper. These kinds of requests actually can-not be entertained, never will be.

In March 2016, students of Karnataka PU-II also complained the same, regarding standard 12 (PU-II Mathematics Exam). Even though the Math Paper was identical to previous year, most students had not even solved the 2015 Question Paper.

Friday, March 25, 2016 - 13:28

The **NEWS** Minute

HOME   NEWS   ANDHRA   KARNATAKA   KERALA   TAMIL NADU   TELANGANA   CULTURE   MEDIA   BLOG

Exams

Online petition for lenient evaluation of K'taka II PU math paper gets over 8000 supporters

The campaign, which was launched on Monday, has garnered over 8000 supporters

TNM Staff | Wednesday, March 16, 2016 - 09:32

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Following a "very tough" math paper that left many II PU students in tears, Saket Ravindran a student launched an online campaign demanding lenient evaluation.

These complains are not new. In fact since last 40 years, (since my childhood), I always see this; every year the same setback, same complain!

In this e-Book I am trying to solve this problem. Those students who practice can learn.

No one can help those who are not studying, or practicing.
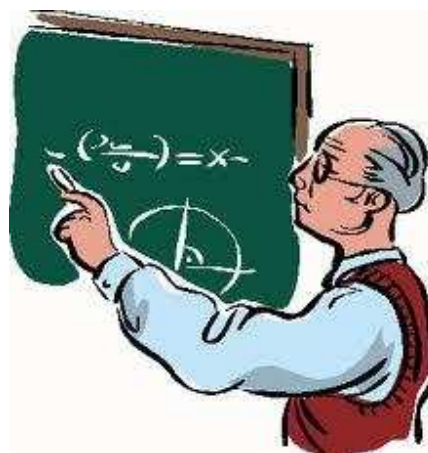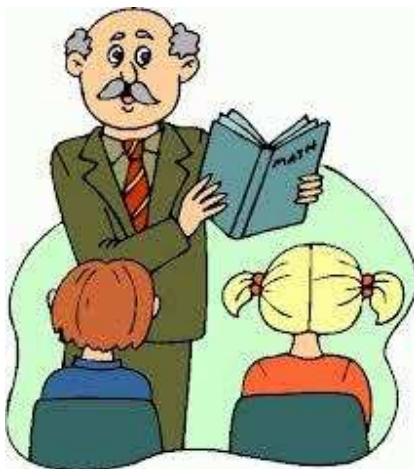
Learn more at http://skmclasses.weebly.com/iit-jee-home-tuitions-bangalore.html

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Blog – http://skmclasses.kinja.com
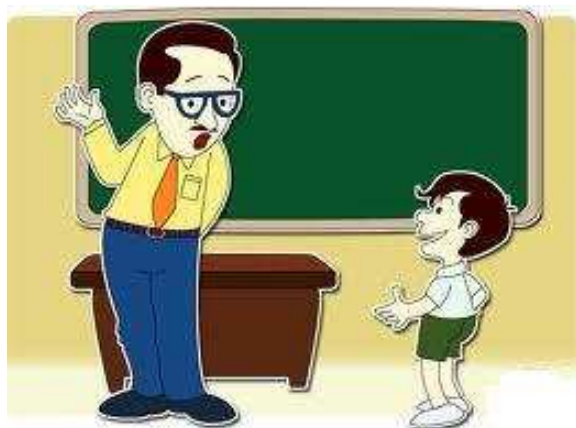
A very polite request :

I wish these e-Books are read only by Boys and Men. Girls and Women, better read something else; learn from somewhere else.

Preface

We all know that in the species "Homo Sapiens ", males are bigger than females. The reasons are explained in standard 10, or 11 (high school) Biology texts. **This shapes or size, influences all of our culture**. Before we recall / understand the reasons once again, let us see some random examples of the influence

Random - 1

If there is a Road rage, then who all fight ? (generally ?). Imagine two cars driven by adult drivers. Each car has a woman of similar age as that of the Man. The cars " touch " or " some issue happens". Who all comes out and fights ? Who all are most probable to drive the cars ?

 (Men are eager to fight, eager to rule, eager for war. Men want to drive. Men want to win)

Random - 2

Heavy metal music artists are all Men. Metallica, Black Sabbath, Motley Crue, Megadeth, Motorhead, AC/DC, Deep Purple, Slayer, Guns & Roses, Led Zeppelin, Aerosmith ….. the list can be in thousands. All these are grown-up Boys, known as Men.

(Men strive for perfection. Men are eager to excel. Men work hard. Men want to win.)

Random - 3

Apart from Marie Curie, only one more woman got Nobel Prize in Physics. (Maria Goeppert Mayer - 1963). So, ... almost all are men.

(Men want to excel. Men strive for perfection. Men want to win. Men work hard. Men do better than women.)

Random - 4

The best Tabla Players are all Men.

(Men want to excel. Men strive for perfection. Men want to win. Men work hard. Men do better than women.)

Random - 5

History is all about, which Kings ruled. Kings, their men, and Soldiers went for wars. History is all about wars, fights, and killings by men.

Boys start fighting from school days. Girls do not fight like this

(Men are eager to fight, eager to rule, eager for war. Men want to drive. Men want to win.)

Random - 6

The highest award in Mathematics, the " Fields Medal " is around since decades. Till date only one woman could get that. (Maryam Mirzakhani - 2014). So, … almost all are men.

(Men want to excel. Men strive for perfection. Men want to win. Men work hard. Men do better than women.)

Random - 7

Actor is a gender neutral word. Could the movie like " Top Gun " be made with Female actors ? The best pilots, astronauts, Fighters are all Men.

Random - 8

In my childhood had seen a movie named " The Tower in Inferno ". In the movie when the tall tower is in fire, women were being saved first, as only one lift was working….

Many decades later another movie is made. A box office hit. " The Titanic ". In this also …. As the ship is sinking women are being saved. **Men are disposable**. Men may get their turn later…

Movies are not training programs. Movies do not teach people what to do, or not to do. Movies only reflect the prevalent culture. Men are disposable, is the culture in the society. Knowingly, unknowingly, the culture is depicted in Movies, Theaters, Stories, Poems, Rituals, etc. I or you can't write a story, or make a movie in which after a minor car accident the Male passengers keep seating in the back seat, while the both the women drivers come out of the car and start fighting very bitterly on the road. There has been no story in this world, or no movie made, where after an accident or calamity, Men are being helped for safety first, and women are told to wait.

Random - 9

Artists generally follow the prevalent culture of the Society. In paintings, sculptures, stories, poems, movies, cartoon, Caricatures, knowingly / unknowingly, " the prevalent Reality " is depicted. The opposite will not go well with people. If deliberately " the opposite " is shown then it may only become a special art, considered as a special mockery.

Random - 10

Men go to "girl / woman's house" to marry / win, and bring her to his home. That is a sort of winning her. When a boy gets a " Girl-Friend ", generally he and his friends consider that as an achievement. The boy who " got / won " a girl-friend feels proud. His male friends feel, jealous, competitive and envious. Millions of stories have been written on these themes. Lakhs of movies show this. Boys / Men go for " bike race ", or say " Car Race ", where the winner " gets " the most beautiful girl of the college.

(Men want to excel. Men are eager to fight, eager to rule, eager for war. Men want to drive. Men want to win.)

Prithviraj Chauhan ' went ` to " pickup " or " abduct " or " win " or " bring " his love. There was a Hindi movie (hit) song … " Pasand ho jaye, to ghar se utha laye ". It is not other way round. Girls do not go to Boy's house or man's house to marry. Nor the girls go in a gang to " pick-up " the boy / man and bring him to their home / place / den.

Random - 11

We have the word "ice cold". While, when it snows heavily, the cleaning of the roads is done by Men. Ice avalanche is cleared by Guns, by Men.

Can women do this please ?

Random - 12

There are many remote mines in this world which are connected by rails through Hilly regions. These railroads move through steep ups and downs. Optimum speed of the train has to be maintained so that the brakes do not burn out, but the next climbing can be done. Sudden braking is not possible as the load of the wagons will derail the train, and will mean huge loss and deaths. The Drivers are Men who risk their lives in every journey.

Random - 13

Almost all of us are very biased. Instead of I asking some questions, see the following images
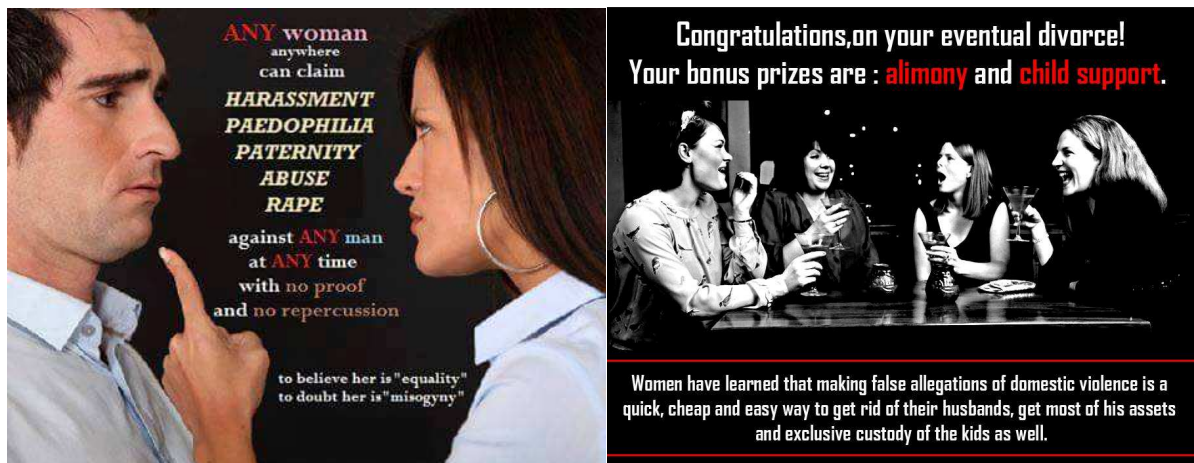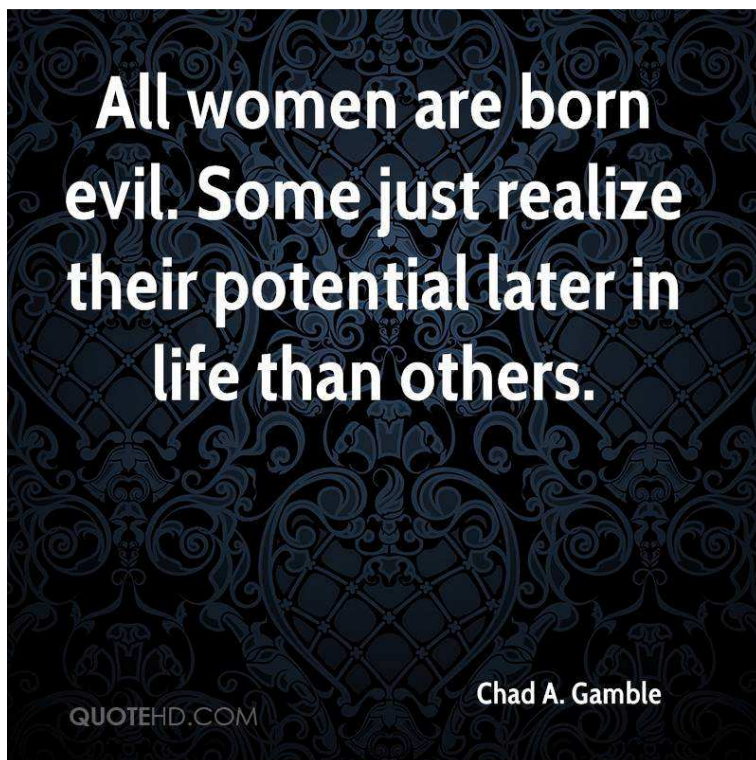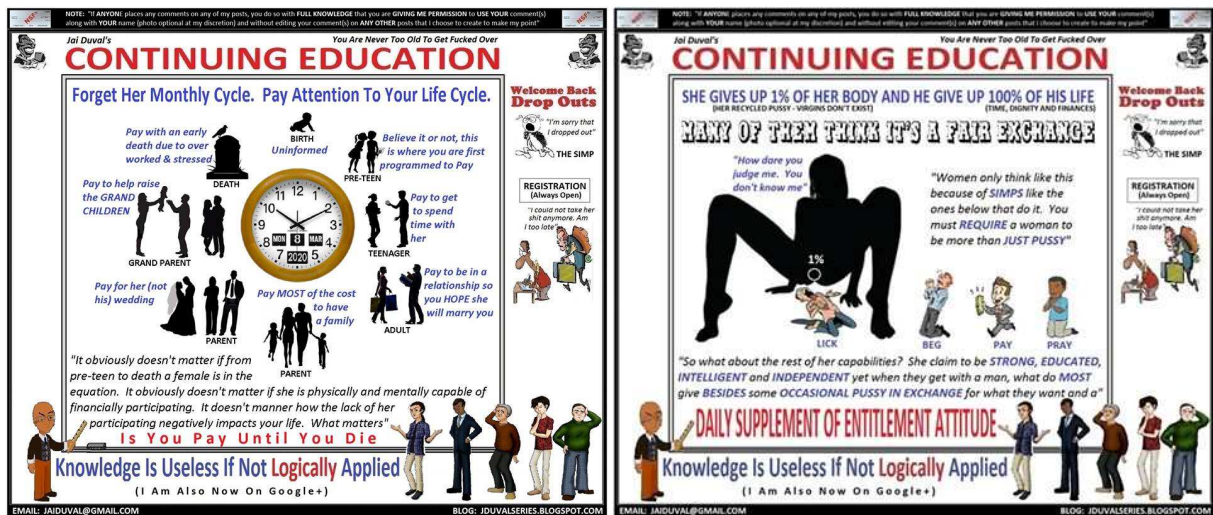
Random - 14

Rich people; often are very hard working. Successful business men, establish their business (empire), amass lot of wealth, with lot of difficulty. Lots of sacrifice, lots of hard work, gets into this. Rich people's wives had no contribution in this wealth creation. Women are smart, and successful upto the extent to choose the right/rich man to marry. So generally what happens in case of Divorces ? Search the net on " most costly divorces " and you will know. The women;(who had no contribution at all, in setting up the business / empire), often gets in Billions, or several Millions in divorce settlements.

Number 1

Rupert & Anna Murdoch -- $1.7 billion

One of the richest men in the world, **Rupert Murdoch** developed his worldwide media empire when he inherited his father's Australian newspaper in 1952. He married Anna Murdoch in the '60s and they remained together for 32 years, springing off three children.

They split amicably in 1998 but soon Rupert forced Anna off the board of News Corp and the gloves came off. The divorce was finalized in June 1999 when Rupert agreed to let his ex-wife leave with $1.7 billion worth of his assets, $110 million of it in cash. Seventeen days later, Rupert married Wendi Deng, one of his employees.

Ted Danson & Casey Coates -- $30 million

Ted Danson's claim to fame is undoubtedly his decade-long stint as Sam Malone on NBC's celebrated sitcom Cheers . While he did other TV shows and movies, he will always be known as the bartender of that place where everybody knows your name. He met his future first bride Casey, a designer, in 1976 while doing Erhard Seminars Training.

Ten years his senior, she suffered a paralyzing stroke while giving birth to their first child in 1979. In order to nurse her back to health, Danson took a break from acting for six months. But after two children and 15 years of marriage, the infatuation fell to pieces. Danson had started seeing Whoopi Goldberg while filming the comedy, Made in America and this precipitated the 1992 divorce. Casey got $30 million for her trouble.

See https://zookeepersblog.wordpress.com/misandry-and-men-issues-a-short-summary-at-single-place/

See http://skmclasses.kinja.com/save-the-male-1761788732

It was Boys and Men, who brought the girls / women home. The Laws are biased, completely favoring women. The men are paying for their own mistakes.

See https://zookeepersblog.wordpress.com/biased-laws/

(Man brings the Woman home. When she leaves, takes away her share of big fortune!)

Random - 15

A standardized test of Intelligence will never be possible. It never happened before, nor ever will happen in future; where the IQ test results will be acceptable by all. In the net there are thousands of charts which show that the intelligence scores of girls / women are lesser. Debates of Trillion words, does not improve performance of Girls.
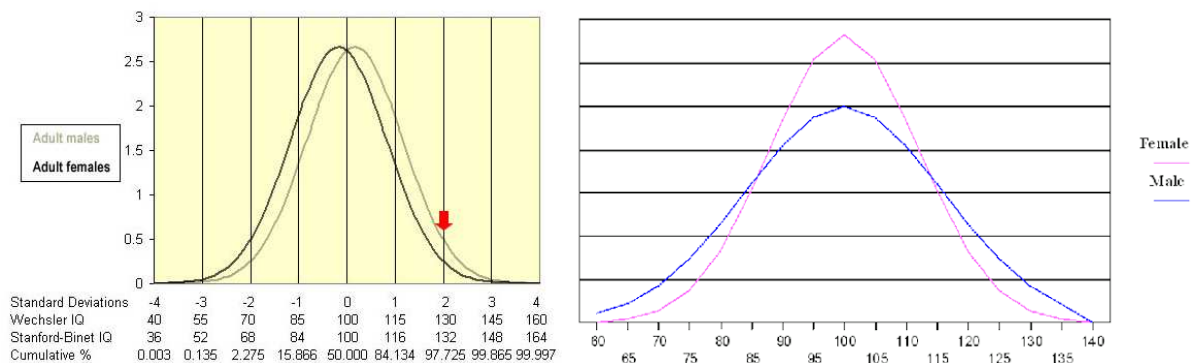
I am not wasting a single second debating or discussing with anyone, on this. I am simply accepting ALL the results. IQ is only one of the variables which is required for success in life. Thousands of books have been written on " Networking Skills ", EQ (Emotional Quotient), Drive, Dedication, Focus, " Tenacity towards the end goal " … etc. In each criteria, and in all together, women (in general) do far worse than men. Bangalore is known as " ….. capital of India ". [Fill in the blanks]. The blanks are generally filled as " Software Capital ", " IT Capital ", " Startup Capital ", etc. I am member in several startup eco-systems / groups. I have attended hundreds of meetings, regarding " technology startups ", or " idea startups ". These meetings have very few women. Starting up new companies are all " Men's Game " / " Men's business ". Only in Divorce settlements women will take their goodies, due to Biased laws. There is no dedication, towards wealth creation, by women.

Random - 16

Many men, as fathers, very unfortunately treat their daughters as " Princess ". Every " non-performing " woman / wife was " princess daughter " of some loving father. Pampering the girls, in name of " equal opportunity ", or " women empowerment ", have led to nothing.

See http://skmclasses.kinja.com/progressively-daughters-become-monsters-1764484338

See http://skmclasses.kinja.com/vivacious-vixens-1764483974

There can be thousands of more such random examples, where " Bigger Shape / size " of males have influenced our culture, our Society. **Let us recall the reasons**, that we already learned in standard 10 - 11, Biology text Books. In humans, women have a long gestation period, and also spends many years (almost a decade) to grow, nourish, and stabilize the child. (Million years of habit) Due to survival instinct Males want to inseminate. Boys and Men fight for the " facility (of womb + care) " the girl / woman may provide. Bigger size for males, has a winning advantage. Whoever wins, gets the " woman / facility ". The male who is of " Bigger Size ", has an advantage to win…. Leading to Natural selection over millions of years. In general " Bigger Males "; the " fighting instinct " in men; have led to wars, and solving tough problems (Mathematics, Physics, Technology, startups of new businesses, Wealth creation, Unreasonable attempts to make things [such as planes], Hard work ….)

So let us see the IIT-JEE results of girls. Statistics of several years show that there are around 17, (or less than 20) girls in top 1000 ranks, at all India level. Some people will yet not understand the performance, till it is said that … year after year we have around 980 boys in top 1000 ranks. Generally we see only 4 to 5 girls in top 500. In last 50 years not once any girl topped in IIT-JEE advanced. Forget about Single digit ranks, double digit ranks by girls have been extremely rare. It is all about " good boys ", " hard working ", " focused ", "**Bel-esprit** " **boys**.

In 2015, Only 2.6% of total candidates who qualified are girls (upto around 12,000 rank). while 20% of the Boys, amongst all candidates qualified. The Total number of students who appeared for the exam were around 1.4 million for IIT-JEE main. Subsequently 1.2 lakh (around 120 thousands) appeared for IIT-JEE advanced.

IIT-JEE results and analysis, of many years is given at https://zookeepersblog.wordpress.com/iit-jee-iseet-main-and-advanced-results/

In Bangalore it is rare to see a girl with rank better than 1000 in IIT-JEE advanced. We hardly see 6-7 boys with rank better than 1000. Hardly 2-3 boys get a rank better than 500.

See http://skmclasses.weebly.com/everybody-knows-so-you-should-also-know.html

Thousands of people are exposing the heinous crimes that Motherly Women are doing, or Female Teachers are committing. See https://www.facebook.com/WomenCriminals/

IIT JEE Results and the situation in Bangalore

Some Random Examples must be known by all

It is extremely unfortunate that the " woman empowerment " has created. This is the kind of society and women we have now. I and many other sensible Men hate such women. Be away from such women, be aware of reality.

BREAKING NEWS
MOTHER HAS CHILD WITH 15 YR OLD SON
BADCRIMINALS.COM

Mother Admits On Facebook to Sleeping with 15 Yr Old Son, They Have a Baby Together - Alwayzturntup

Sometimes it hard to believe w From Alwayzturntup

ALWAYZTURNTUP.ME

the NewDay
I'm in love with my son and want to have his baby

Is this mum and her son morally

'Sex with my son is incredible - we're in love and we want a baby'

Ben Ford, who ditched his wife when he met his mother Kim West after 30 years, claims what the couple are doing 'isn't incest'

MIRROR.CO.UK

Woman sent to jail for the rest of her life after raping her four grandchildren is described as the 'most evil person' the judge has ever seen

Edwina Louis rape...

See More

Former Shelbyville ISD teacher who had sex with underage student gets 3 years in prison

After a two day break over the weekend, A Shelby County jury was back in the courtroom looking to conclude the trial of a former Shelbyville ISD teacher who had...

KLTV.COM | BY CALEB BEAMES

Woman sent to jail for raping her four grandchildren

A Ohio grandmother has been sentenced to four consecutive life terms after being found guilty of the rape of her own grandchildren. Edwina Louis, 53, will spend the rest of her life behind bars.

DAILYMAIL.CO.UK

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http://www.thenativecanadian.com/.../eastern-ontario-teacher-...

I can rape all the little boys I want

No one will care

No one will stop me

The N.C. Chronicles.: Eastern Ontario teacher charged with 36 sexual offences

anti feminism, Child abuse, children's rights, Feminist hypocrisy,

THENATIVECANADIAN.COM | BY BLACKWOLF

Hyd woman kills newborn boy as she wanted daughter - Times of India

Having failed to bear a daughter for the third time, a shopkeeper's wife slit the throat of her 24day-old son with a shaving blade and left him to die in a street on Tuesday night.Purnima's first child was a stillborn boy, followed by another boy born five years ago.

TIMESOFINDIA.INDIATIMES.COM

Montgomery's son, Alan Vonn Webb, took the stand and was a key witness in her conviction.

"I want to see her placed somewhere she can never do that to children ...

See More

gentler sex? Violence against men.'s photo.

Up to 64,000 women in UK are child-sex offenders

~ The Guardian

Woman sentenced to 40 years in prison for raping her children

A Murfreesboro mother found guilty of raping her own children learned her fate on Wednesday.

WAFF.COM | BY DENNIS FERRIER

Women, the gentler sex? Violence against men.
April 8 at 1:38am ·

Like Page

In fact, the past decade has seen a dramatic increase in the number of incidents of women raping and sexually assaulting boys and men. On May 2014, Jezebel repo...

In Facebook, and internet + whatsapp etc we have unending number of posts describing frustration of men / husbands on naughty unreasonable women. Most women are very illogical, punic, perfidious, treacherous, naughty, gamey bitches.

We also see zillions of Jokes which basically describe how unreasonable women / girls are. How stupid they are, making life of Boys / Men / Husband a hell.

While each of these girls was someones daughter. Millions of foolish Dads are into Fathers rights movement, who want their daughter back for pampering.

Most girls are being cockered coddled cosseted mollycoddled featherbedded spoilt into brats.

Foolish fathers are breeding Monsters who are filing false rape cases. Enacting Biased Laws. Filing False domestic violence cases. Filing false sexual assault cases. Asking for alimony, and taking custody of the Daughter, not allowing the " monster " to meet dad. The cycle goes on and on and on.

Foolish men keep pampering future demons who make other Men's life a hell. (Now read this again from beginning). Every day we see the same posts of frustration.

When I grow up I will beat my husband
No one will care
No one will stop me

53% of Domestic Violence Victims are Men
Stop the Silence
Stop the Violence

FUNNY.   NOT FUNNY.

DOUBLE STANDARDS HURT EVERYONE.

https://nicewemen.wordpress.com/

Each women as described below was someone's Pampered Princess …

End violence against women . . . . .

BREAKING NEWS

North Carolina Grandma Eats Her Daughter's New Born Baby After Smoking Bath Salts

Henderson, North Carolina— A North Carolina grandmother of 4 and recovering drug addict, is now in custody after she allegedly ate her daughter's newborn baby….

AZ-365.TOP

28-Year-Old Texas Teacher Accused of Sending Nude Picture to 14-Year-Old Former Student

BREITBART.COM

http://latest.com/.../attractive-girl-gang-lured-men-alleywa.../

Attractive Girl Gang Lured Men Into Alleyways Where Female Body Builder Would Attack Them

A Mexican street gang made up entirely of women has been accused of using their feminine wiles to lure men into alleyways and then beating them up and...

LATEST.COM

http://www.wfmj.com/.../youngstown-woman-convicted-of-raping-...

Youngstown woman convicted of raping a 1 year old is back in jail

A Youngstown woman who went to prison for raping a 1-year-old boy fifteen years ago is in trouble with the law again.

WFMJ.COM

End violence against women . . . .

Women are raping boys and young men

Rape advocacy has been maligned and twisted into a political agenda controlled by radicalized activists. Tim Patten takes a razor keen and well supported look into the manufactured rape culture and...

AVOICEFORMEN.COM | BY TIM PATTEN

Bronx Woman Convicted of Poisoning and Drowning Her Children

Lisette Bamenga researched methods on the Internet before she killed her son and daughter in 2012.

NYTIMES.COM | BY MARC SANTORA

Monster women have very easy and cozy life. Easy to demand anything and get law in favor !
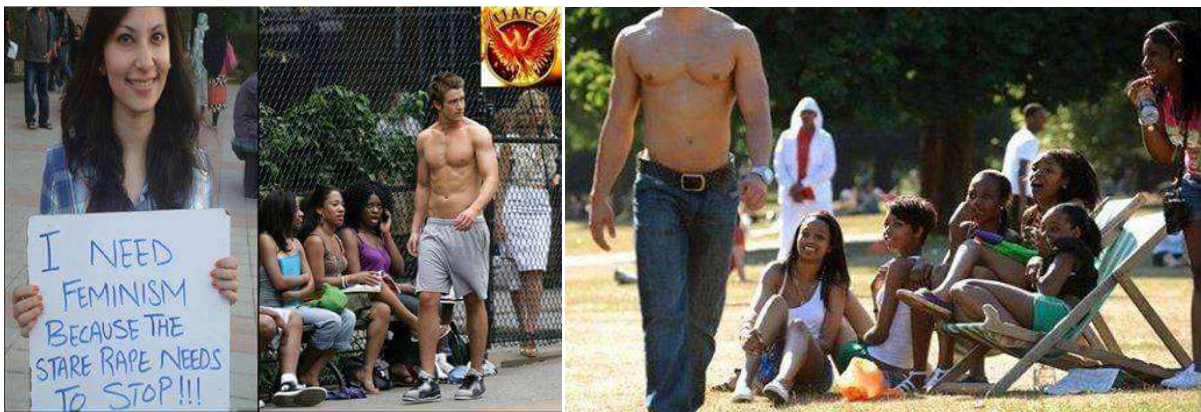
If the lawmakers submit to these strange demands of say ... " Stare Rape ! "; then we can easily see what kind of havoc that will create.

55%
of Biological Parents
Who Kill Their Children are
Mothers

Homicidal Encounters. A Study of Homicide in Australia 1989-1999.
Australian Institute of Criminology (Mouzos, 2000, p. 142, Fig. 74).

ManKind
Equality Network

Woman charged with killing baby also had previous infant die

Woman charged with killing baby also had previous infant die

ABC7.COM | BY ROB MCMILLAN

Female Sex Predators: A Crime Epidemic shared a link.
Yesterday at 12:40am

WTVA.com | Woman pleads guilty to having sex with a dog

PITTSBORO, Miss. (WTVA) -- A Calhoun County woman has pleaded guilty to charges she had unnatural intercourse with a dog. Sheriff Greg Poll

WTVA.COM

Like   Comment   Share

Mhra Leander Pallat, Eric Antonio Alvarado and 31 others   Top Comments

Oklahoma Teacher Receives 15-Year Prison Sentence For Sex With 15-Year-Old Boy

A former Oklahoma middle school teacher has pleaded guilty to 6 counts of rape, child enticement...

THREEPERCENTERNATION.COM

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A Russian-born newlywed slowly butchered her German husband — feeding strips of his flesh to their dog until he took his last breath. Svetlana Batukova, 46, was...

See More

Daily Mail
January 15, 2015 · 🌐

Mother charged with rape and sodomy of her son's 12-year-old friend

She killed her husband and then fed him to her dog: police

A Russian-born newlywed butchered her German hubby — and fed strips of his flesh to her pooch, authorities said. Svetlana Batukova offed Horst Hans Henkels at their...

NYPOST.COM

Mom, 30, 'raped and had oral sex with her son's 12-year-old friend'

Nicole Marie Smith, 30, (pictured) of St Charles County, Missouri, has been jailed after she allegedly targeted the 12-year-old boy at her home.

DAILYM.AI

April 4 at 4:48am · 🌐

This mother filmed herself raping her own son and then sold it to a man for $300. The courts just decide her fate. When you see what she got, you're going to be outraged.

Female prison officers commit 90pc of sex assaults on male teens in US juvenile detention centres

Lawsuit in Idaho highlights the prevalence of sexual victimization of juvenile offenders.

IBTIMES.CO.UK | BY NICOLE ROJAS

Mother Who Filmed Herself Raping Her 1-Year-Old Son Receives Shocking Sentence

"...then used the money to buy herself a laptop..."

AMERICANEWS.COM

In several countries or rather in several regions of the world, family system has collapsed, due to bad nature and naughty acts of women. Particularly in Britain, and America, almost 50% people are alone, lonely, separated, divorced or failed marriages. In 2013, 48% children were born out of wedlock. It was projected that by 2016, more than 51% children will be born, to unmarried mothers. In these developed countries " paternity fraud " by women, are close to 20%. You can see several articles in the net, and in wikipedia etc. This means 1 out of 5 children are calling a wrong man as dad. The lonely, alone " mothers " are frustrated. They see the children as burden. Love in the Society in general is lost, long time ago. The types of " Mothers " and " Women " we have now …………
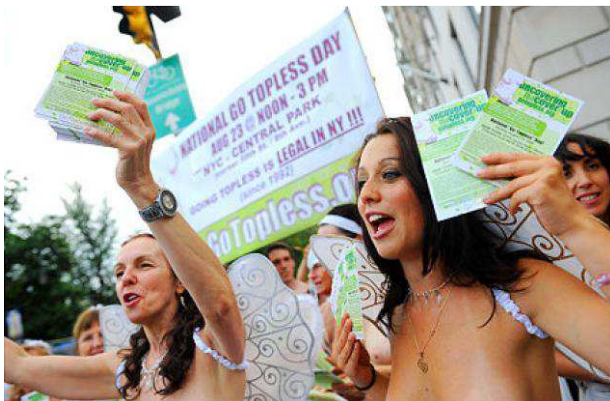
This is the type of women we have in this world. These kind of women were also someones daughter

Mother Stabs Her Baby 90 Times With Scissors After He Bit Her While Breastfeeding Him!

Eight-month-old Xiao Bao was discovered by his uncle in a pool of blood Needed 100 stitches after the incident; he is now recovering in hospital Reports say his...

MOMMABUZZ.COM

Not All Feminist Theory is Equal

Christina Hoff Sommers
Factual and Equity Feminist

Andrea Dworkin
Radical and Gender Feminist

✔️ ❌

"That is the corrosive paradox of gender feminism's misandrist stance: no group of women can wage war on men without at the same time denigrating the women who respect those men."

"Under patriarchy, every woman's son is her potential betrayer and also the inevitable rapist or exploiter of another woman"

ManKind
Equality Network

WILLFUL BLINDNESS
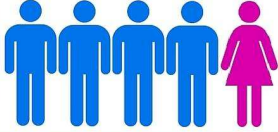
Ignoring the Majority of Victims Because of Their Gender

I am a feminist because it bothers me that a woman gets killed by her male partner every single week, and somehow that doesn't qualify as a tools-down national crisis even though if a man got killed by a shark every week we'd probably arrange to have the ocean drained.

Annabel Crabb

79%
of Homicide victims worldwide are **MALE**
"Where is the tools-down national crisis?"

United Nations Office of Drugs and Alcohol. Global Study on Homicide (2013, p. 13).
https://en.wikipedia.org/wiki/Willful_blindness

ManKind
Equality Network

Not All Feminist Theory is Equal

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Valerie Solanis
Radical and Gender Feminist

✔️ ❌

Christina H. Sommers
@CHSommers

Want to close wage gap? Step one: Change your major from feminist dance therapy to electrical engineering.

"To call a man an animal is to flatter him; he's a machine, a walking dildo"

n.b. Some Feminists

ManKind
Equality Network

Muslim Woman Caught RAPING Her Own Son - Gives Disgusting Excuse to Judge | John Hawkins' Right Wing News

RIGHTWINGNEWS.COM

By now if you have assumed that Indian women are not doing any crime then please become friends with MRA Guri https://www.facebook.com/profile.php?id=100004138754180

He has dedicated his life to expose Indian Criminals

Delhi Woman Who Tried To Rape An Auto Driver, While Her Friend Filmed The Act, Has Been Arrested

Men are raped too!

MENSXP.COM | BY NIKITA MUKHERJEE

Muslim mother, 43, jailed for sex offences against girl, nine

Raheelah Dar, 43, from Middlesbrough, has been jailed for seven years for carrying out a string of sex offences against a nine-year-old girl.

DAILYMAIL.CO.UK

IIT JEE Results and the situation in Bangalore

Mail Online

Mother who had been forced into an arranged marriage is jailed for filming herself having sex with her 14-year-old son and sending the clips to relatives in Pakistan

- Vile mother filmed having sex with her teenage son in sick porn video
- Clips sent to cousin in Pakistan who allegedly asked her to make film
- She also sent her relative indecent images of her three-year-old daughter

By ALEX MATTHEWS FOR MAILONLINE

PUBLISHED: 12:44 GMT, 1 August 2016 | UPDATED: 11:23 GMT, 2 August 2016

Wife Stabs Husband And Runs Away After He Stops Her From Gambling

The husband said his wife had become a habitual gambler who was also addicted to liquor.

INDIATIMES.COM

Teacher learns fate for 6 months of sex with boy

(CBS8) — SAN DIEGO (CNS) – A Crawford High School teacher and coach who carried on a six-month sexual relationship with a 15-year-old male student was sentenced Friday to a two-year prison term. Toni Nicole Sutton, 38, pleaded guilty...

WND.COM

Mom jailed for 40 years after body of daughter, 9, found in fridge

Amber Keyes, 37, was sentenced in the death of Ayahna Comb in Houston on Friday. Ayahna, who had cerebral palsy, had been in the fridge for six months...

DAILYMAIL.CO.UK

IIT JEE Results and the situation in Bangalore

Professor Subhashish Chattopadhyay

IIT JEE Results and the situation in Bangalore

IIT JEE Results and the situation in Bangalore

The oldest IIT is IIT Kharagpur. It was established in 1951

University of Roorkee is around since 1847 (if we consider Thomason College of Civil Engineering as the origin or beginning). Since 2001 these Institutions or the campus is known as IIT Roorkee. Actually since 1948 University of Roorkee had started.

Bengal Engineering College Shibpur (Now known as Indian Institute of Engineering Science and Technology) was established in 1856.

B.E. College Shibpur or IIEST did not become an IIT, in contrast to the case of Roorkee, because IIT Kharagpur is in WestBengal.

I am in Bangalore since year 2000. Randomly I meet lot of people. Never found a student or a parent to be aware of B.E. College Shibpur or IIEST. One of the oldest and good colleges of India, is unknown to South Indians. The paradigm of General Knowledge is really questionable.

South Indian do not prefer to go to IIT Kharagpur, or IIT Roorkee or any of the North Indian Colleges.

Since 1985 the " **Revolution** " of Private Engineering colleges started mainly in Maharastra, Andhra Pradesh, Tamilnadu and Karnataka. Nothing great is done in 1 day. Great theft and great dilution are also not done in 1 day. Thousands of " Private Engineering Colleges " came up one by one. The high fees, admission charges, Infrastructure charges etc are very steady source of income for the politicians, MLAs, MPs, Ministers, and Land Mafias.

Not sure if number of idiots are limited !

On average every year there are around 5000 seats vacant in Karnataka Colleges. Most diluted exam known as Karnataka CET, then COMED-K for all who are eager to pay more, and then Management quota with exorbitant fees are not enough to fill-up so many seats.

On 10 th August 2016, read a " news report " that 15,000 seats were vacant in these " so called " **colleges**. In some cases after paying 4 - 5 Lakh an annum, meaning … spending more than 20 lakh to become an " Engineer ", the unemployment in Bangalore is around 1.5 Million. It is coincidental that 14 lakh (1.4 Million) students appear for IIT JEE exam, at all India level.

I had paid 247 Rupees per semester for studying Engineering. So with a fees of less than 500 Rs a year!

RECs (Regional Engineering Colleges) are now known as NITs (National Institutes of Technology). In South India if you ask someone (or a group) to make a list of top 10 NITs, then Surathkal or Calicut is surely included while Rourkela is surely missed out. Even though Rourkela is the biggest NIT, one of the oldest and best. From South India no one wants to go to Rourkela.

Dalai Llama, when asked; what surprised him most about humanity, said:

" Man. !!!

Because he sacrifices his health in order to make money. Then he sacrifices money to recuperate his health.

And then he is so anxious about the future that he does not enjoy the present;

the result being that he does not live in the present or the future; he lives as if he is never going to die, and then dies having never really lived."

-

Someone can get angry on opinion. Can differ and argue on " point of views ". But no one can get angry on data, and facts. You can not argue with facts.

I am teaching for 27 years now. Here I am refraining from revealing any of my opinions. By the end of the book the conclusions drawn by you, on the data presented, is completely your perception, and I am not interested in any arguments on your perceptions.

If you analyze data of successful candidates in IIT JEE for many decades, you see on avearge only 2 or rarely 3 girls are amongst the top 100. Seen articles celebrating " success of girls " from Tamilnadu, saying ... " 3 Tamilnadu girls make it in Top 500 ". Generally the society is silent on the success and achievments of the 99% good boys. Praise for them is rare. I keep wondering why is it not 50% boys and 50% girls in top 100, or top 1000, or top ....

Several decades of biased favors towards, girls, drums beaten on " equal opportunity ", and zillion articles on " woman empowerment ", has created this result, and performance.

Back in 80s when I was in standard 11-12, Bihar CET (rather Bihar CEE) rank of girls were given by adding 25 marks to their scores. I did not see, or hear of any agitation by any woman, against this biased approach. " Equal Opportunity " indeed for the boys. Even after that number of girls with ranks better than 500 were very rare.

Every student scoring 96% or above are NOT making it to IIT. The percentage of students qualifying in IIT JEE advanced drops sharply as the standard 10 percentage drops from 96%. Any student making it to IIT with less than 88% in standard 10 is very rare. The standard 12 CBSE marks cutoff for IIT as seen since last few years is 92% .

Also since many years it has been seen that on average, generally students score 3% less in standard 12 compared to that of standard 10 marks percentage.

I wonder why the coaching institutes even accept students for IIT JEE coaching when they get less than 94% ?

Last year (2014) 75,000 students in CBSE got CGPA 10. This year 96,000 scored a perfect 10. Most of these students do not even come in top 1 lakh, to qualify IIT JEE main. Though every student feels they have scored close to 99% in standard 10, CBSE, and CBSE has " unfairly " bunched them " with all others " in group of " perfect 10 " !!. Very rare to see some student admitting that she may be scoring around 95% or say 91%.

Too many coaching institutes are too eager to take " donations " from one and all. Too many people are eager to donate any money, for their daughters as well. Equal facilities and opportunities.

Most coaching institutes do not have any " rejection criteria ". Donations from none is refused.

Fathers of " Brilliant daughters " are providing for all goodies. At all India level FIITJEE has close to 4 lakh students, out of which only around 3000 are making it to IIT JEE finally. This is less than 1% result.

Most people do not understand percentage well. Imagine I had 110 students, and 1 made it to IIT JEE with 10,000 rank, will that be acceptable to most people ?

Last year (2014) Jawahar HSS (CBSE), Neyveli, saw 59 students out of 64 qualifying in IIT JEE main. 38 of those 59 qualified in IIT JEE advanced. (Six out of 11 girls and 32 out of 48 boys cleared it. Last year 23 of the 61 students cleared the exam. Since the inception of the school in 2005 by the Jawahar Educational Society and Neyveli Telugu Samithi Educational Academy, 129 students of the total 356 cleared the examinations, which roughly means that one in

every three students passing out of the school cleared the competitive examinations in the last eight years.)

While in Bangalore schools, mostly it is 0 (zero). In some rare cases it is 1 and very rarely it is 2. Only Deeksha had around 7 out of 250 students. FIITJEE Magnolia, Bannerghatta Road, around 15 out of 250. **In these 7 and 15 ranks of 5000, 8000, 10000 all are included.** Christ college near Dairy circle has a cutoff for standard 11 admissions (since many years) as 92% for girls, and 88% for boys. If someone analyzes data for many years, the number of students making it to IIT from Christ college is very rare.

This year (2015) also, (note the word also), 30 students at DPS failed in the exams that that are held for promotion from 11 to 12. Last year (2014) 13 were not given admission in standard - 12 and were let go to join other schools, such as " Integrated coaching's ".

Too many times in too many houses, debates have " proved " that a rank of worst than 1000 in IIT JEE is not of much use, but coaching institutes will not shy from including students with ranks of 10000. I have not met anyone in Bangalore, who is eager to go to IIT Patna, or say IIT RopaR. Yet while analyzing performance of coaching Institutes, all and any rank is included.

Since last 3 years from L&T south city and Brigade Millennium combined, only 1 (one) boy per year had qualified in IIT JEE (advanced). This year also I do not think this is going to change. I know all the boys in these colonies.

Some girls prefer to try for Medicine, just to avoid " Maths ". The number of seats in JIPMER Pondicherry are around 50, at AFMC Pune around 30, similar at AIIMS Delhi, CMC Vellore. When IIT JEE with 10,000 seats is " so tough " what happens with 50 or 30 MBBS seats ?

Yesterday one of my students who appeared for IIT JEE advanced exam, told me ... " Sir at my exam center I did not see any girls ". I told him, some may have been there, better you did not waste your time, looking for " girls ". This is not the correct scientific way to look at things. 1.2 Lakh boys had qualified (in 2015) while only 28,104 girls had qualified in IIT JEE main. 27660 students did not pay the fees for IIT JEE advanced and thus opted out from the exam.

Since 90s the IIT JEE single digit rank holders are amongst those who are representing " Official Physics, Chemistry or Maths " olympiads. KVPY toppers, NTSE toppers partly fillup the top 500 ranks. **While I see most parents in Bangalore, blissfully unaware of " Official Olympiad " exams. Govt of India, IAPT (Indian Association of Physics Teachers),**

IACT (Indian Association of Chemistry) Teachers, AMTI (Association of Maths Teachers of India) are doing so much, but yet Bangalore parents are not reachable.

At all India level there are many examples where a student of standard 10 has represented India, at IMO (International Math Olympiad) or say AphO (Asian Physics Olympiad).

How many students and Parents in Bangalore even aspire for these is not known.

I am assuming you have already read ...

https://skmclasses.wordpress.com/accolades-and-appreciations-received-from-students-and-parents/

A news report in July 2015 said -

IIT-Roorkee expels 73 students for poor grades. A former director of IIT, Kharagpur, recounted that in 2006, around 15-20 first year students were expelled on account of poor performance. On 24 th June 2015 a IIT Kanpur post graduate student (IIT-K) slit his wrist in a suicide bid. Last year,(2014) the IITs saw an estimated 14 student suicides, probably the highest ever across these elite colleges. Jitesh Sharma, a third-year student of chemical engineering at IIT Bombay, allegedly committed suicide. In Feb2014 A 21-year-old student at IIT Kanpur has committed suicide in his hostel room by drinking poison. This is the second suicide in the last three years by a student at India's premier engineering institute.

The myth that only those who are extremely brilliant and perform well get into IITs has now been busted long back. (13 %) Thirteen per cent (about 110) of first year students, in IIT-Madras, have failed in Mathematics, followed by 10.3% (about 87) in Physics and 7.5% (63) in Chemistry. According to data provided by Indian Institute of Technology (IIT), Madras, about 840 students got admitted to various streams of engineering, last year. Eleven per cent of students failed, in Maths, in the first semester, the number increased to 13 per cent in the second semester and 10.3 per cent faced difficulty to crack Physics in the second semester. It is not only those students who failed to clear core subjects, but nine per cent failed in thermodynamics too.

I meet many parents. Most dont know that CBSE, and ICSE server was hacked a few years ago and the data was analysed by a techie. In June 2013 many anomalies in the marking system of CBSE and ICSE were exposed, by Kolkata-born Debarghya Das. He proved that the marks are tampered by the boards, which is actually unfair. After the marks of all the students were pickedup and graphs plotted, it was realized that an interesting incongruity in the marking system: there are 33 different scores unattained between the passing mark of 35 and the maximum of 100 by the nearly 1,50,000 who appeared for the ICSE (Class X) exam. According to Das' findings, not a single student got the following marks: 36, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 56, 57, 59, 61, 63, 65, 67, 68, 70, 71, 73, 75, 77, 79, 81, 82, 84, 85, 87, 89, 91, 93. Similarly, in the case of ISC (Class XII exam) a set of 24 marks between 40 and 100 were found to be unattained.

This proved that the boards were giving grace marks. Different schools, as per their relations and clout with board people were managing different grace marks. In simple the premier systems are fudged and does not reflect the " true " result of the students. Around 150,000 students take the ICSE and around 65,000 take the ISC from in and around India.

He wrote : the exact same numbers were missing from everybody's results in all subjects. There were specific numbers, in no real pattern, that were missing for the distribution of the entire distribution of all subjects achieved by all students. And these missing numbers were regularly interspersed on the number line. For example, 81, 82, 84, 85, 87, 89, 91 and 93 were visibly missing. I repeat, no one in India had achieved these marks in the ICSE. 32, 33 and 34 were visibly absent. This chain of 3 consecutive numbers is the longest chain of absent numbers. Coincidentally, 35 happens to be the pass mark.From the 66 numbers between 35, the pass mark, and 100, the maximum possible, ONLY 33 WERE ATTAINED.Let me repeat that, 50% of the possible pass marks were attainable in the ICSE. Here's a complete list of unattained marks -

36, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 56, 57, 59, 61, 63, 65, 67, 68, 70, 71, 73, 75, 77, 79, 81, 82, 84, 85, 87, 89, 91, 93. Yes, that's 33 numbers!

We've all heard about "grace" marks. It's always been a huge myth and an outcome, many believe, of constant religious faith. Well, it's myth no more. I infer that they gave away grace marks to everyone who got a 32 to 34 to turn it into a 35 or more. Clearly, marks are tampered.

You should see http://deedy.quora.com/Hacking-into-the-Indian-Education-System

On 18 th June 2015 I wrote

The expected and Inevitable happened !! Today the IIT JEE advanced results were announced.

Only 2.6% of total candidates who qualified, are girls. while 20% of the Boys amongst all candidates qualified.

According to the summary made available by IIT Bombay, the examination organising institute, a total of 1,24,741 candidates had registered of which 1,17,238 candidates had appeared in both the paper and only 23456 candidates qualified. 3,049 girls qualified. The topper amongst girls has a rank of 47.

Zone-wise distribution of top candidates

| Zone | Topper | Number of candidates within the | | | All qualified |
		Top 10	Top 100	Top 500	
IIT Bombay	Bharat Khandelwal (AIR 5)	1	34	151	6838
IIT Delhi	Janak Agrawal (AIR 2)	2	12	70	4511
IIT Guwahati	Ayush Ranjan (AIR 94)	0	1	10	1445
IIT Kanpur	Satvat Jagwani (AIR 1)	1	5	43	3085
IIT Kharagpur	Rohit Kumar Jena (AIR 57)	0	3	40	3115
IIT Madras	Kamana Nagendra Reddy (AIR 4)	5	28	127	4928
IIT Roorkee	Himanshu Gupta (AIR 7)	1	17	59	2534

Did you find out how many students are amongst top 1000 from Bangalore ?

How many girls from Bangalore made it amongst top 1000 ?

How many students from L&T South City, Brigade Millennium, Shobha Apartments are amongst top 1000 ?

From **Patna**, Children of **taxi driver, mason, farmer, daily wager/farm labourer, helper in photo lab, and migrant workers** are among the successful candidates. The father of one of the successful candidates, Neeraj Jha, is a taxi driver in Kolkata. Neeraj, secured 1,217th rank. From Patna, only one aspirant, Ayush, who got 358 of 504 marks, found a place in the top 100 without a single one in the first 10 ranks from IIT Guwahati zone.

From Narayana School J P Nagar, Bangalore no one qualified in IIT JEE advanced 2015. Many students of DPS who held failed in standard 11 exams, and were refused promotions to standard 12, had joined these kind of institutions.

At all India level gender wise distribution of the candidates (after IIT JEE main results) are as follows ....

Gender	Registered	Appeared	Qualified
Male	102,385	96,895	23,407
Female	22,355	20,342	3,049
Third	1	1	0

Hope by now you have forgotten that in 2015 close to 14 lakh student appeared for IIT JEE...

This is the unfortunate reality ! the HARD truth !

Let donation to coaching institutes by parents of Girls continue more !!

Written on 7th August 2015, Nearly 58% of the candidates who qualified for the JEE (Advanced) this year have passed their Std XII exam from CBSE board. Of 26,456 candidates set to enter the 16 IITs and other premier central engineering institutes, 15,311 are from CBSE board, which has managed to retain its position for past many years. CBSE is followed by Andhra Pradesh (2,155), Maharashtra (1,787) and Rajasthan (1,610). The share of Andhra and Maharashtra boards stands at 7.14% and 6.75% respectively.

On 6 th August 2015, it was reported that Over 2,000 students dropped out of IITs in last three years. Actually in the last three years (2012-15), 2060 students have dropped out of 16 IITs. In the same period, 2352 students dropped out of 30 NITs. In the last three years (2012-15), 2060 students have dropped out of 16 IITs. In the same period, 2352 students dropped out of 30 NITs. In the last three years (2012-15), 2060 students have dropped out of 16 IITs. In the same period, 2352 students dropped out of 30 NITs.

On 7 th August 2015 it was reported that " Depression is the way of life for IIT Students ". Once Students secure admission in IIT, many steadily go downhill, fighting demons such as poor self esteem, a heavy study load and a cultural mismatch. IIT Roorkee bears this out. Out of the 1,050 students admitted every year, only 980 graduate. This week, the dean of students made a presentation highlighting the rise in depression cases at the campus."Pushed by parents to enter IIT, they soon realise engineering is not what they wanted to pursue as a career," said director Pradipta Banerji.The institute saw the highest number of dropouts from 2012-13 to 2014-15, according to a statement the government tabled in the Lok Sabha on Wednesday. But this is not IIT Roorkee's story alone. A staggering 4,400 students dropped out of IITs and NITs in the past three years due to various reasons including "academic stress", said Union human resource development minister Smriti Irani. IIT Roorkee saw 228 dropouts, followed by IIT Kharagpur at 209 and IIT Delhi at 169.

NAME OF INSTITUTE	NO. OF DROPOUTS DURING 2012-1015		
	2012-13	2013-14	2014-15
IIT Bhubaneswar	4	15	16
IIT Bombay	74	66	72
IIT Mandi	Nil	Nil	Nil
IIT Delhi	130	249	169
IIT Indore	4	Nil	3
IIT Kharagpur	197	129	209
IIT Hyderabad	32	15	39
IIT Jodhpur	Nil	Nil	Nil
IIT Kanpur	Nil	Nil	Nil
IIT Madras	Nil	8	Nil
IIT Gandhinagar	1	4	1
IIT Patna	1	12	10
IIT Roorkee	159	188	228
IIT Ropar	1	Nil	Nil
IIT-BHU, Varanasi	3	2	2
IIT Guwahati	Nil	9	8
Total	606	697	757

Perhaps the biggest challenge students face is getting a grip on their new-found freedom. Every month, about 45 students approach student counsellor at IIT Bombay, Amita Tagare, for help to deal with academic pressure and competition from other performers in the class. "Studies take a backseat for many as soon as they enter IIT. They feel that by cracking the entrance they have won the battle. Soon they realise that they are far behind their batchmates and their self-esteem takes a dip," said Tagare. IIT Hyderabad is setting up an early intervention faculty committee, which will act as a buddy for first-year students struggling to balance their new-found freedom with academic pressure. "When they enter the institute, students really do not know how to handle freedom," said director UB Desai.

"Lots of students drop out," added Rupa Murghai, student counsellor at IIT Delhi. Almost 3-4% of students leave the course half-way through as a result of this disconnect, she added. Three years ago, NIT Trichy stepped in when instances of depression started to go out of hand. The

institute stretched its orientation programme for the new students to 21 days from the earlier one day. "We now have counsellors to help students. In addition, the faculty ensures students are able to cope with academics," said director Srinivasan Sundarrajan. These may be small steps, but they ensure dreams do not die young.

Wrote on 13 June 2016

Not a Single girl could be in top 100. Riya Singh, the topper among the girls this year (2016), got an all-India rank of 133. Last year,(2015) there was one (1) girl candidate among the first 100, ranked 47. In 2014, there were five girls in the top 100. Of the 36,566 who qualified to join IITs from the 1,47,678 appeared, girls comprised 12.49%. At Bangalore Milind Kumar Vaddiraju, who has secured all India rank of 189 (Note worst than the Girl Topper with 133 rank), had topped CET Karnataka.

Of the total candidates qualified in JEE-Advanced, 71 were Overseas Citizens of India (OCI), People of Indian Origin (PIO) or foreign students.

In the IIT Kharagpur region, which includes Andhra Pradesh, Odisha, West Bengal, Andaman and Nicobar, Jamshedpur, and Chhattisgarh, a Vizag student topped the list, with only 1 student from West Bengal making it to the top 100. Total only 3 students in top 100 from IIT-Kgp region.

A news report in April 2016

A 17-year-old IIT aspirant, who was studying at a coaching institute in Kota, allegedly jumped to her death on Thursday (28 th April 2016) as she was disappointed with her scores in IIT-JEE Mains, police said. This is the fifth case of student suicide in Kota this year.

IIT-JEE is easy for intelligent people.

Prof. Subhashish and Team of Teachers have been teaching for IIT-JEE, Science Olympiads since 1989. This is Home Tuitions for very smart Boys. We accept exceptionally smart boys of standard 10,9 or in rare cases 8.

How many people know that India hosted IPhO (International Physics Olympiad) in 2015 ?

Did you know that India hosted IChO (International Chemistry Olympiad) at Mumbai in 2001 ?

Are you aware APhO (Asian Physics Olympiad) was held at Delhi in 2012 ?

The number of Super High IQ people in India, is more than total US population. We have to nurture the " Bel-esprit" smart young generation. We give focused attention in small batches.

It is all about personal care. *IIT JEE Coaching in small groups at your locality is our motto. We have produced several IIT JEE Rankers. Many had Single digit, Double digit ranks.*

Prof. Subhashish taught at IPhO National camp, HBCSE (Homi Bhabha Center for Science Education), BARC Campus, Mankhurd, Bombay many times. Here the top 35 students of India are chosen and trained.

5 of these brightest students represent India, for IPhO (International Physics Olympiad).

Coach yourself with Professors of SKMClasses at your Home.

free eBooks pdf download for PCM (Physics, Chemistry, Mathematics) Question Bank and Solutions Chapter wise see https://zookeepersblog.wordpress.com/science-tuition-chemistry-physics-mathematics-for-iit-jee-aieee-std-11-12-pu-isc-cbse/

Bright students can study at Home, in small groups, for focused learning, attention, and course coverage as per individual requirements.

What is the need to travel long distances and waste time in large groups ?

Email :   mokshya@gmail.com

Home Tuition in small groups, for students in

IB (International Baccalaureate) Programme,
IGCSE (International General Certificate of Secondary Education),
ISc (Indian School Certificate),
ICSE (Indian Certificate of Secondary Education),
CBSE (Central Board of Secondary Education) etc.

It has been a long time since 1989. In this long journey we picked-up several friends. Associated ourselves with several Happy Parents and Students. Naturally we received several Appreciations.

A very small number of these appreciations can be seen at

https://skmclasses.wordpress.com/accolades-and-appreciations-received-from-students-and-parents/

Don't let schooling interfere with your education - Mark Twain

Education is " what remains after one has forgotten everything that he learned in his school" - B. F. Skinner

.... As we see it is there .... Conduct an experiment by going to some school. Ask the Children " what do you want to become, as you grow-up " ?

Or say

Whom do you venerate ?

(The 2nd Question will be very tough as most children will not know the meaning of the word " venerate ")

Most commonly you will get answers as

"Computer (something) ", [may be hacker who knows .... { " Ethical word may be missing " } " Electronics (Engineer maybe)", " IT " (not sure how many children will mean this as Income Tax Officer), Doctor etc .....

Though you will not get answers as " Ceramic Engineer ", " Metallurgist ", " Civil Engineer ", or say Nurse, or Driver, some { " smart " } children will say that they want to become pilot, or say even " Astronaut ".

[Ironically we all know { " meaning " } of these answers. All grownup people were surely Children some years back afterall......

So by growing-up " WE KNOW ALL "

Ask any or all of them .....

" Do you know how many people till date have walked on Moon " ?

Did you know that 12 people have been to Moon, in 6 successful missions so far. Did you care to know that Dr. Harrison Schmitt was the first Scientist, and last man to walk on Moon ?

[https://zookeepersblog.wordpress.com/who-is-dr-harrison-schmitt-12-men-have-walked-on-moon-till-1972/]

When we see them as so unimportant, and not bother to even know their names ...... How does it matter if around 600 Astronauts have been to Space ? Is going to Space is most productive thing to do ?

How many people know that Maryam Mirzakhani, an Iranian maths professor at Stanford University in California, was named the first female winner of the Fields Medal (2014) – often described as the Nobel prize for mathematics.

[http://skmclasses.weebly.com/women-mathematicians.html]

Hope you see that " Children and Adults " alike are living in a highly skewed, distorted world-view, with strange priorities. Our Schools, and great Education system have produced " people like you ", we wish some more " different " people are groomed, in this world .....

Who are those "? unknown ?" people whom we at SKMClasses venerate ?

Nicolas Winton, Andreas Vesalius, Irena Sendler, Gertrude Elion, Emmy Noether, Kurt Godel, Desmond Morris, Alan Turing, Anthony Nesty, Vaclav Havel.... [didn't see any Indian, or IIT-an name here !?!?]

[https://zookeepersblog.wordpress.com/some-points-which-i-wish-all-my-new-prospective-students-know/]

Daniel Kahneman, Recipient, Nobel Prize in Economics, 2002; Eugene Higgins Professor of Psychology Emeritus, Princeton; Author, Thinking, Fast and Slow told

...

Education is an important determinant of income — one of the most important — but it is less important than most people think. If everyone had the same education, the inequality of income would be reduced by less than 10%. When you focus on education you neglect the myriad other factors that determine income. The differences of income among people who have the same education are huge.

Income is an important determinant of people's satisfaction with their lives, but it is far less important than most people think. If everyone had the same income, the differences among people in life satisfaction would be reduced by less than 5%.

Income is even less important as a determinant of emotional happiness. Winning the lottery is a happy event, but the elation does not last. On average, individuals with high income are in a better mood than people with lower income, but the difference is about 1/3 as large as most people expect. When you think of rich and poor people, your thoughts are inevitably focused on circumstances in which their income is important. But happiness depends on other factors more than it depends on income.

What Extra Qualities do we have compared to others ?

Do some Home-Work before contacting us .....

SKMClasses Bangalore, the most Expensive Home Tuitions ....

We do NOT give any DEMO Classes

My Friend, Teacher and Partner Bashisht Singh takes FREE online classes, for Mathematics. You have   to first become his friend in Facebook

https://www.facebook.com/singh.bashisht

Next go to https://www.facebook.com/k2pclasses/   and register for Free classes

Login process : Once the class is fixed, a link will be send to the student mail ID. Student will enter into the virtual class by just clicking the link.

His teaching methods are very innovative.

He has Master degree in Computer Applications (MCA) from National Institute of Technology, Jamshedpur in 1992.

More than 20 years of teaching experience of Mathematics.

Apart from the above, if you go to any search engine, such as google, and search for "free IIT JEE coaching" or for "free demo classes ", or " free IIT JEE training material ", you will get hundreds of hits. I am not sure if you were aware of this, while it remains solely your choice to use those facilities.

About Official Science Olympiads India (IPhO, IChO, APhO, IBO, Astronomy Olympiad etc)

Many Indian cheats are conducting hobby exams in the name of " Olympiads " or Science Olympiad. These hobby exams lead to nothing. Almost all students get certificates. These cheats charge hefty fees from students and sends bunch of blank certificates to every participating school. Almost all principals can write certificates for themselves. NSO National Science Olympiad is one such example.

While the official Olympiads are those conducted by IAPT (Indian Association of Physics Teachers), IACT (Indian Association of Chemistry Teachers) and HBCSE (Homi Bhabha Center for Science Education, Chembur, Mankhurd, BARC Mumbai).

The Physics Olympiad exams are as follows

Level 1 NSEP = National Standard Exam in Physics

Level 2 INPhO = Indian National Physics Olympiad (Here around 300 students are allowed to take the exam and around 35 are invited for the National camp at Mumbai)

Level 3 National camp at Mumbai, from where 5 students are selected to participate at International Physics Olympiad (IPhO)

The Chemistry Olympaid selection has the similar exam sequence

Level 1 NSEC = National Standard Exam in Chemistry

Level 2 INChO = Indian National Chemistry Olympiad

Level 3 National camp at Mumbai (HBCSE - Homi Bhabha Center for Science Education Mankhurd, BARC Campus, near Chembur)

5 students go for IChO (or ICO) International Chemistry Olympiad

Mathematics the exams are RMO (Regional Maths Olympiad), then INMO (Indian National Math Olympiad), then camp at HBCSE.

The students who represent India at IPhO, IChO or IMO (International Maths Olympiad) are sponsored by Govt Of India. Lodging, Boarding are taken care by Govt. of India.

India hosted the 33rd International Chemistry Olympiad (IChO) in 2001 at Mumbai. This was India's third year of participation. In year 2012 India hosted APhO (Asian Physics Olympiad) at New Delhi. The 46th IPhO was hosted at Mumbai, India in July 2015.

The selection for National Camp happens in the following steps ....

1) NSEP (National Standard Exam in Physics) and NSEC (National Standard Exam in Chemistry) held around 24 rth November. Approx 35,000 students appear for these exams every year. The exam fees is Rs 100 each. Since 1998 the IIT JEE toppers have been topping these exams and they get to know their rank / performance ahead of others.

2) INPhO (Indian National Physics Olympiad) and INChO (Indian National Chemistry Olympiad). around 300 students in each subject are allowed to take these exams. Students coming from outside cities are paid fair from the Govt of India.

3) The Top 35 students of each subject are invited at HBCSE (Homi Bhabha Center for Science Education) Mankhurd, near Chembur, BARC, Mumbai. After a 2-3 weeks camp the top 5 are selected to represent India. The flight tickets and many other expenses are taken care by Govt of India.

The type of Questions and course is identical to IIT JEE. You can contact Prof. Subhashish (mokshya@gmail.com) for appearing for these exams and seeing the past question papers.

The registration for Physics, and Chemistry exam can be done by paying 100 X 2 = 200 Rs. This has to be done in August. For South Bangalore Students the exam center will be Vijaya College near South End circle

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Everybody is a genius. But if you judge a fish by its ability to climb a tree, it will live its whole life believing that it is stupid. ? Albert Einstein

We often get queries on " Science Projects ", Brilliance by Abacus classes, and students becoming " best in Maths " due to Vedic maths Classes...

It is important that we clarify our views regarding these.

We teach only chosen Bel-esprit good boys of Standard 11-12 in South Bangalore. In rare cases if a group is formed for standard 9 or Standard 10 boys then we do consider.

Please see http://skmclasses.weebly.com/everybody-knows-so-you-should-also-know.html

We have extremely strict selection criteria. Meaning just by eager paying someone can't become our student. More than 90% people approaching us are rejected.

Please see http://skmclasses.blog.com/accolades-and-appreciations-received-from-students-and-parents/

- We do not help people for Practicals or Science projects. In youtube there are several thousand small project ideas. It will take several lifetimes to see all. Whatever is seen and picked-up is random in any case. The picked up projects can be done to get awes and appreciations. Our view is it takes huge amount of time doing science projects, also often associated with lot of cost, while learning value is very limited. We have met students of standard 8 or 9 claiming good in science because they did " Aero-modelling ". In our view the parents spent lot of money (Laks) buying battery driven small planes and the child wasted lot of time flying these toys and had no time for " Basic Algebra ".

In 27 years of teaching we have not met a single student who is brilliant because he did Vedic Maths or Abacus or " Science Projects ". We are aware that randomly many parents have their own views and in the society there many kind of avenues available for blowing money.

- People believe in all kinds of things. Aristotle used goat urine and Hippocrates recommended pigeon droppings for treatment of baldness. Cleopatra experimented with a goo made of ground horse teeth and deer marrow to spur Julius Caesar's dormant hair follicles into action. During the Victorian era cold tea was brushed on the scalp, followed by citrus juice. In farming areas chickens were persuaded to leave deposits on a bald head and cows to lick it. The Australian National Maritime Museum has revealed that sufferers of rheumatism were once advised to sit inside the festering carcasses of whales in order to relieve their symptoms.

So we are not in a business of changing opinion of people, or " education reform ".

- After teaching at official National Camp for Physics (at Homi Bhabha Center BARC Campus) for many times, and grooming several single digit, double digit rank holders in IIT-JEE we know that standard 11 studies is 10 times tougher than standard 10. 86,000 students (all India) in CBSE standard 10 get A+ meaning more than 90%. In IIT-JEE from Bangalore there are hardly 5 students with a rank of better than 1000. A rank worst than 500 in IIT-JEE is not of much use.

In last 18 years only 2 students from Bangalore could reach National camp of Chemistry, and none for Physics.

Though most people are eager talking about " education reform ", we do not preach .... Please see **https://zookeepersblog.wordpress.com/why-do-some-people-waste-their-time-preaching/**

See the following links for more information

http://skmclasses.weebly.com/everybody-knows-so-you-should-also-know.html

and

https://zookeepersblog.wordpress.com/iit-jee-iseet-main-and-advanced-results/

https://zookeepersblog.wordpress.com/karnataka-pu-results-rural-students-do-better-than-urban-students/

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To recall standard integrals

$f(x)$	$\int f(x)dx$	$f(x)$	$\int f(x)dx$
x^n	$\frac{x^{n+1}}{n+1}$ $(n \neq -1)$	$[g(x)]^n g'(x)$	$\frac{[g(x)]^{n+1}}{n+1}$ $(n \neq -1)$
$\frac{1}{x}$	$\ln|x|$	$\frac{g'(x)}{g(x)}$	$\ln|g(x)|$
e^x	e^x	a^x	$\frac{a^x}{\ln a}$ $(a > 0)$
$\sin x$	$-\cos x$	$\sinh x$	$\cosh x$
$\cos x$	$\sin x$	$\cosh x$	$\sinh x$
$\tan x$	$-\ln|\cos x|$	$\tanh x$	$\ln\cosh x$
$\csc x$	$\ln\left|\tan\frac{x}{2}\right|$	$\operatorname{cosech} x$	$\ln\left|\tanh\frac{x}{2}\right|$
$\sec x$	$\ln|\sec x + \tan x|$	$\operatorname{sech} x$	$2\tan^{-1}e^x$
$\sec^2 x$	$\tan x$	$\operatorname{sech}^2 x$	$\tanh x$
$\cot x$	$\ln|\sin x|$	$\coth x$	$\ln|\sinh x|$
$\sin^2 x$	$\frac{x}{2} - \frac{\sin 2x}{4}$	$\sinh^2 x$	$\frac{\sinh 2x}{4} - \frac{x}{2}$
$\cos^2 x$	$\frac{x}{2} + \frac{\sin 2x}{4}$	$\cosh^2 x$	$\frac{\sinh 2x}{4} + \frac{x}{2}$

$f(x)$	$\int f(x)\,dx$	$f(x)$	$\int f(x)\,dx$
$\frac{1}{a^2+x^2}$	$\frac{1}{a}\tan^{-1}\frac{x}{a}$ $(a>0)$	$\frac{1}{a^2-x^2}$	$\frac{1}{2a}\ln\left|\frac{a+x}{a-x}\right|$ $(0<|x|<a)$
		$\frac{1}{x^2-a^2}$	$\frac{1}{2a}\ln\left|\frac{x-a}{x+a}\right|$ $(|x|>a>0)$
$\frac{1}{\sqrt{a^2-x^2}}$	$\sin^{-1}\frac{x}{a}$ $(-a<x<a)$	$\frac{1}{\sqrt{a^2+x^2}}$	$\ln\left|\frac{x+\sqrt{a^2+x^2}}{a}\right|$ $(a>0)$
		$\frac{1}{\sqrt{x^2-a^2}}$	$\ln\left|\frac{x+\sqrt{x^2-a^2}}{a}\right|$ $(x>a>0)$
$\sqrt{a^2-x^2}$	$\frac{a^2}{2}\left[\sin^{-1}\left(\frac{x}{a}\right)+\frac{x\sqrt{a^2-x^2}}{a^2}\right]$	$\sqrt{a^2+x^2}$	$\frac{a^2}{2}\left[\sinh^{-1}\left(\frac{x}{a}\right)+\frac{x\sqrt{a^2+x^2}}{a^2}\right]$
		$\sqrt{x^2-a^2}$	$\frac{a^2}{2}\left[-\cosh^{-1}\left(\frac{x}{a}\right)+\frac{x\sqrt{x^2-a^2}}{a^2}\right]$

Some series Expansions -

$$\frac{\pi}{2} = \left(\frac{2}{1}\frac{2}{3}\right)\left(\frac{4}{3}\frac{4}{5}\right)\left(\frac{6}{5}\frac{6}{7}\right)\left(\frac{8}{7}\frac{8}{9}\right)\cdots$$

$$\pi = \frac{4}{1} - \frac{4}{3} + \frac{4}{5} - \frac{4}{7} + \frac{4}{9} - \frac{4}{11} + \frac{4}{13} - \cdots$$

$$\frac{\pi}{4} = \frac{1}{1} - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \frac{1}{9} - \cdots$$

$$\pi = \sqrt{12}\left(1 - \frac{1}{3\cdot 3} + \frac{1}{5\cdot 3^2} - \frac{1}{7\cdot 3^3} + \cdots\right)$$

$$\frac{\pi^2}{6} = \frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \frac{1}{4^2} + \cdots = \sum_{n=1}^{\infty}\frac{1}{n^2}$$

$$\int_0^{\pi/2} \log\sin x\, dx = -\frac{\pi}{2}\log 2 = \frac{\pi}{2}\log\frac{1}{2}$$

Solve a series problem

If $\dfrac{1}{1^2} + \dfrac{1}{2^2} + \dfrac{1}{3^2} + \cdots$ upto $\infty = \dfrac{\pi^2}{6}$, then value of

$\dfrac{1}{1^2} + \dfrac{1}{3^2} + \dfrac{1}{5^2} + \cdots$ up to ∞ is

(a) $\dfrac{\pi^2}{4}$ (b) $\dfrac{\pi^2}{6}$ (c) $\dfrac{\pi^2}{8}$ (d) $\dfrac{\pi^2}{12}$

Ans. (c)

Solution We have $\dfrac{1}{1^2} + \dfrac{1}{3^2} + \dfrac{1}{5^2} + \cdots$ upto ∞

$$= \frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \frac{1}{4^2} + \frac{1}{5^2} + \frac{1}{6^2} + \cdots \text{ upto } \infty$$

$$- \frac{1}{2^2}\left[1 + \frac{1}{2^2} + \frac{1}{3^2} + \cdots\right]$$

$$= \frac{\pi^2}{6} - \frac{1}{4}\left(\frac{\pi^2}{6}\right) = \frac{\pi^2}{8}$$

$$1 - \frac{1}{2^2} + \frac{1}{3^2} - \frac{1}{4^2} + \frac{1}{5^2} - \frac{1}{6^2} + \cdots \infty = \frac{\pi^2}{12}$$

$$\frac{1}{2^2} + \frac{1}{4^2} + \frac{1}{6^2} + \cdots \infty = \frac{\pi^2}{24}$$

$$\frac{\sin\sqrt{x}}{\sqrt{x}} = 1 - \frac{x}{3!} + \frac{x^2}{5!} - \frac{x^3}{7!} + \frac{x^4}{9!} - \frac{x^5}{11!} + \cdots$$

$$\cos x = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \cdots = \sum_{k=0}^{n} \frac{(-1)^k x^{2k}}{(2k)!}$$

$$\sin x = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \cdots = \sum_{k=0}^{n} \frac{(-1)^k x^{2k+1}}{(2k+1)!}$$

$$\cosh x = 1 + \frac{x^2}{2!} + \frac{x^4}{4!} + \cdots = \sum_{k=0}^{n} \frac{x^{2k}}{(2k)!}$$

$$\sinh x = x + \frac{x^3}{3!} + \frac{x^5}{5!} + \cdots = \sum_{k=0}^{n} \frac{x^{2k+1}}{(2k+1)!}$$

$$\tan^{-1} x = x - \frac{x^3}{3} + \frac{x^5}{5} - \frac{x^7}{7} + \cdots \qquad (-1 \le x < 1)$$

$$\tan x = x + \frac{x^3}{3} + \frac{2x^5}{15} + \frac{17x^7}{315} + \frac{62x^9}{2835} \cdots +$$
$$\frac{2^{2n}\left(2^{2n}-1\right)B_n x^{2n-1}}{(2n)!} + \cdots \qquad |x| < \frac{\pi}{2}$$

$$\sec x = 1 + \frac{x^2}{2} + \frac{5x^4}{24} + \frac{61x^6}{720} + \cdots + \frac{E_n x^{2n}}{(2n)!} + \cdots \quad |x| < \frac{\pi}{2}$$

$$\csc x = \frac{1}{x} + \frac{x}{6} + \frac{7x^3}{360} + \frac{31x^5}{15120} + \cdots +$$
$$\frac{2\left(2^{2n-1}-1\right)B_n x^{2n-1}}{(2n)!} + \cdots \qquad 0 < |x| < \pi$$

$$\cot x = \frac{1}{x} - \frac{x}{3} - \frac{x^3}{45} - \frac{2x^5}{945} - \cdots - \frac{2^{2n} B_n x^{2n-1}}{(2n)!} - \cdots \quad 0 < |x| < \pi$$

$$\tan x = x + \frac{x^3}{3} + \frac{2\,x^5}{15} + \cdots$$

$$\sec x = 1 + \frac{x^2}{\underline{|2}} + \frac{5\,x^4}{\underline{|4}} + \cdots$$

$$\log (\cos x) = -\frac{x^2}{\underline{|2}} - \frac{2\,x^4}{\underline{|4}} - \cdots$$

$$\log (1 + \sin x) = x - \frac{x^2}{2} + \frac{x^3}{6} - \frac{x^4}{12} + \cdots$$

$$\sin^{-1} x = x + \frac{1}{2}\frac{x^3}{3} + \frac{1\cdot 3}{2\cdot 4}\frac{x^5}{5} + \frac{1\cdot 3\cdot 5}{2\cdot 4\cdot 6}\frac{x^7}{7} + \cdots \quad |x| < 1$$

$$\cos^{-1} x = \frac{\pi}{2} - \sin^{-1} x$$

$$= \frac{\pi}{2} - \left(x + \frac{1}{2}\frac{x^3}{3} + \frac{1\cdot 3}{2\cdot 4}\frac{x^5}{5} + \frac{1\cdot 3\cdot 5}{2\cdot 4\cdot 6}\frac{x^7}{7} + \cdots \right) \quad |x| < 1$$

$$\tan^{-1} x = \begin{cases} x - \dfrac{x^3}{3} + \dfrac{x^5}{5} - \dfrac{x^7}{7} + \cdots & |x| < 1 \\[2mm] \pm \dfrac{\pi}{2} - \dfrac{1}{x} + \dfrac{1}{3x^3} - \dfrac{1}{5x^5} + \cdots & \begin{cases} + \text{ if } x \geq 1 \\ - \text{ if } x \leq -1 \end{cases} \end{cases}$$

$$\sec^{-1} x = \cos^{-1}\left(\frac{1}{x}\right)$$

$$= \frac{\pi}{2} - \left(\frac{1}{x} + \frac{1}{2\cdot 3x^3} + \frac{1\cdot 3}{2\cdot 4\cdot 5x^5} + \frac{1\cdot 3\cdot 5}{2\cdot 4\cdot 6\cdot 7x^7} + \cdots \right) \quad |x| > 1$$

$$\csc^{-1} x = \sin^{-1}(1/x)$$

$$= \frac{1}{x} + \frac{1}{2\cdot 3x^3} + \frac{1\cdot 3}{2\cdot 4\cdot 5x^5} + \frac{1\cdot 3\cdot 5}{2\cdot 4\cdot 6\cdot 7x^7} + \cdots \quad |x| > 1$$

$$\cot^{-1} x = \frac{\pi}{2} - \tan^{-1} x$$

$$= \begin{cases} \dfrac{\pi}{2} - \left(x - \dfrac{x^3}{3} + \dfrac{x^5}{5} - \dfrac{x^7}{7} + \cdots \right) & |x| < 1 \\[2mm] p\pi + \dfrac{1}{x} - \dfrac{1}{3x^3} + \dfrac{1}{5x^5} + \cdots & \begin{cases} p = 0 \text{ if } x \geq 1 \\ p = 1 \text{ if } x \leq -1 \end{cases} \end{cases}$$

$$e^x = 1 + \frac{x}{1!} + \frac{x^2}{2!} + \frac{x^3}{3!} + \ldots = \sum_{n=0}^{\infty} \frac{x^n}{n!}$$

$$\ln x = 2 \left[\frac{x-1}{x+1} + \frac{1}{3}\left(\frac{x-1}{x+1}\right)^3 + \frac{1}{5}\left(\frac{x-1}{x+1}\right)^5 + \ldots \right]$$

$$= 2\sum_{n=1}^{\infty} \frac{1}{2n-1}\left(\frac{x-1}{x+1}\right)^{2n-1} \quad (x > 0)$$

$$\ln x = \frac{x-1}{x} + \frac{1}{2}\left(\frac{x-1}{x}\right)^2 + \frac{1}{3}\left(\frac{x-1}{x}\right)^3 + \ldots$$

$$= \sum_{n=1}^{\infty} \frac{1}{n}\left(\frac{x-1}{x}\right)^n \quad (x > \tfrac{1}{2})$$

$$\ln x = (x-1) - \frac{1}{2}(x-1)^2 + \frac{1}{3}(x-1)^3 - \ldots$$

$$= \sum_{n=1}^{\infty} (-1)^{n-1}\frac{1}{n}(x-1)^n \quad (0 < x \leq 2)$$

$$\ln(1+x) = x - \frac{1}{2}x^2 + \frac{1}{3}x^3 - \ldots$$

$$= \sum_{n=1}^{\infty} (-1)^{n-1}\frac{1}{n}x^n \quad (|x| < 1)$$

$$\log_e(1-x) = -x - \frac{x^2}{2} - \frac{x^3}{3} - \frac{x^4}{4} - \ldots \infty \quad (-1 \leq x < 1)$$

$$\log_e(1+x) - \log_e(1-x) =$$

$$\log_e \frac{1+x}{1-x} = 2\left(x + \frac{x^3}{3} + \frac{x^5}{5} + \ldots \infty\right) \quad (-1 < x < 1)$$

$$\log_e\left(1+\frac{1}{n}\right) = \log_e \frac{n+1}{n} = 2 \left[\frac{1}{2n+1} + \frac{1}{3(2n+1)^3} + \frac{1}{5(2n+1)^5} + \ldots \infty\right]$$

$$\log_e(1+x) + \log_e(1-x) = \log_e(1-x^2) = -2\left(\frac{x^2}{2} + \frac{x^4}{4} + \ldots \infty\right) \quad (-1 < x < 1)$$

$$\log 2 = 1 - \frac{1}{2} + \frac{1}{3} - \frac{1}{4} + \frac{1}{5} - \ldots \quad = \frac{1}{1\cdot2} + \frac{1}{3\cdot4} + \frac{1}{5\cdot6} + \ldots$$

Important Results

(i) (a) $\displaystyle\int_0^{\pi/2} \frac{\sin^n x}{\sin^n x + \cos^n x}\, dx = \frac{\pi}{4} = \int_0^{\pi/2} \frac{\cos^n x}{\sin^n x + \cos^n x}\, dx$

(b) $\displaystyle\int_0^{\pi/2} \frac{\tan^n x}{1 + \tan^n x}\, dx = \frac{\pi}{4} = \int_0^{\pi/2} \frac{dx}{1 + \tan^n x}$

(c) $\displaystyle\int_0^{\pi/2} \frac{dx}{1 + \cot^n x} = \frac{\pi}{4} = \int_0^{\pi/2} \frac{\cot^n x}{1 + \cot^n x}\, dx$

(d) $\displaystyle\int_0^{\pi/2} \frac{\tan^n x}{\tan^n x + \cot^n x}\, dx = \frac{\pi}{4} = \int_0^{\pi/2} \frac{\cot^n x}{\tan^n x + \cot^n x}\, dx$

(e) $\displaystyle\int_0^{\pi/2} \frac{\sec^n x}{\sec^n x + \csc^n x}\, dx = \frac{\pi}{4} = \int_0^{\pi/2} \frac{\csc^n x}{\sec^n x + \csc^n x}\, dx$ where, $n \in R$

(ii) $\displaystyle\int_0^{\pi/2} \frac{a^{\sin^n x}}{a^{\sin^n x} + a^{\cos^n x}}\, dx = \int_0^{\pi/2} \frac{a^{\cos^n x}}{a^{\sin^n x} + a^{\cos^n x}}\, dx = \frac{\pi}{4}$

(iii) (a) $\displaystyle\int_0^{\pi/2} \log \sin x\, dx = \int_0^{\pi/2} \log \cos x\, dx = -\frac{\pi}{2} \log 2$

(b) $\displaystyle\int_0^{\pi/2} \log \tan x\, dx = \int_0^{\pi/2} \log \cot x\, dx = 0$

(c) $\displaystyle\int_0^{\pi/2} \log \sec x\, dx = \int_0^{\pi/2} \log \csc x\, dx = \frac{\pi}{2} \log 2$

(iv) (a) $\displaystyle\int_0^{\infty} e^{-ax} \sin bx\, dx = \frac{b}{a^2 + b^2}$

(b) $\displaystyle\int_0^{\infty} e^{-ax} \cos bx\, dx = \frac{a}{a^2 + b^2}$

(c) $\displaystyle\int_0^{\infty} e^{-ax} x^n\, dx = \frac{n!}{a^{n+1}}$

$$\int \frac{dx}{\sqrt{x^2 - a^2}} = \ln\left(x + \sqrt{x^2 - a^2}\right) + C$$

$$\int \frac{dx}{\sqrt{x^2 + a^2}} = \ln\left(x + \sqrt{x^2 + a^2}\right) + C$$

$$\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} \ln\left(\frac{x - a}{x + a}\right) + C$$

$$\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \ln\left(\frac{a + x}{a - x}\right) + C$$

$$\int \sqrt{a^2 - x^2}\, dx = \frac{x}{2}\sqrt{a^2 - x^2} + \frac{a^2}{2} \sin^{-1}\left(\frac{x}{a}\right) + C$$

$$\int \sqrt{a^2 + x^2}\, dx = \frac{x}{2}\sqrt{a^2 + x^2} + \frac{a^2}{2} \sinh^{-1}\left(\frac{x}{a}\right) + C$$

$$\int \sqrt{x^2 - a^2}\, dx = \frac{x}{2}\sqrt{x^2 - a^2} - \frac{a^2}{2} \cosh^{-1}\left(\frac{x}{a}\right) + C$$

(In 2016 Celebrating 27 years of Excellence in Teaching)

Good Luck to you for your Preparations, References, and Exams

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