

Educrat IAS Academy
Contact Details: 9163228921/8910154148

GENERAL STUDIES

Name of the Candidate	Sahars Kuma		
Email ID	[REDACTED]	Roll No.	001
Mobile No.	[REDACTED]	Date	7/8/24

INDEX TABLE			INSTRUCTIONS	
Q.No.	Max. Marks	Marks Obtained		
1			1. Please do furnish Name, Email, Roll No. and Mobile in the answer sheet.	
2			2. There are TWENTY questions printed in ENGLISH, all questions are compulsory.	
3			3. The number of marks carried by a question/part is indicated against it.	
4			4. Answers must be written in the medium authorized in the admission Certificate, which must be stated clearly on the cover of this Question-Cum-Answer (QCA) Booklet in the space provided.	
5			5. Word limit in questions, if specified, should be adhered to. Any page or portion of the page left blank in the Question-Cum-Answer Booklet must be struck off.	
6			<i>Any specific messages for Educrat IAS Mentors/Evaluators with respect to your copy? Write here.</i>	
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19			Start Time:	End Time:
20			Mode of Examination:	Online <input type="checkbox"/> Offline <input type="checkbox"/>
Total Marks:			ECN CODE:	Evaluation Date:
Remarks:				

Young man

~~Shrik~~ ^{national car} ~~teacher~~
routine

~~Chat paper~~ ~~with animals, cattle, stud~~
help in field, study, ~~chop vegetables~~
~~had at it~~

prayer, well-pot, study,

shape of pot in well
~~shape of pot in well~~

Gandhiji

Repeated 1) Excellence - Kalam, Ramanujan, Vidyasaagar
↳ lamp post

2) Habit → Repeated

Students of RKMV → routine, (discipline)

Act → Action, signifies one-time.

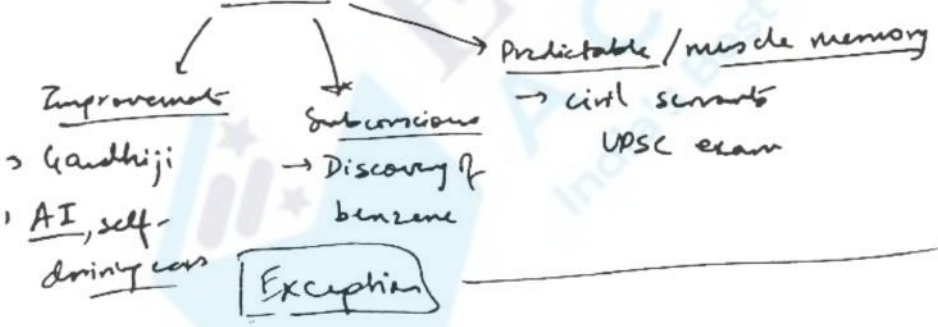
if possible to excel. selection procedures

↳ cricket trials, exams → UPSC, CAT

4) 2 kinds of students



Habit → Not overwhelmingly anymore



Vivekananda - 'Arise, awake ...'

Excellence + amenable to corrections + introspection + retrospection + disciplined mind
mentorship

SECTION A

1. A great man is different from an eminent one in that he is ready to be the servant of the society.

2. We are what we repeatedly do. Excellence, then, is not an act, but a habit.

3. True friendship can exist only between equals.

4. History is determined by those who write it.

We are what we repeatedly do.

Excellence, then, is not an act, but a habit

There used to live a young man, Ramesh, in a small town. He had a dream to take part and win the local karate tournament. So, he enrolled in the local dojo to train himself. His sensei/teacher was a very wise man, and Ramesh was confident of his victory.

However, the teacher designed a routine for Ramesh, where he used to

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wake up early in the morning and spend his entire day punching a piece of paper. In the evenings, he had to walk to a well, outside of the town and fill a pot with water to bring it home.

Ramesh spent weeks doing the same routine. He followed his master's words, but he could not help, but think that his training is going nowhere.. Day in and out, he used to punch the paper and then walk to the well for water.

About a year later, he decided that he cannot continue this wasted lifestyle any longer. That evening, on the way to the well, he decided that he would leave the dojo and train elsewhere.

However, at the well, he had a wonderful realisation. He was drawing the water, when he realised that on the slab of the well, there was a depression, formed by all those times, he, and others have drawn water from the well and kept their pots. He got thinking that if the mere act of keeping a pot on a spot repeatedly left such a depression, then his repeated act of punching a paper must have borne results.

He went back to his master, and apologised for doubting him. Having understood the lesson of repeated, persistent practice, he participated and excelled in the tournament.

The above story makes us realize the importance of dogmatic, persistence and how we become what we repeatedly do.

→ Realisation could be a little more personal

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Excellence is a virtue and can be understood as mastery over a certain action. There is often a difficult path towards excellence. And very often, the path is laid with obstacles. Hence, it is not possible for everyone to strive for excellence. Dr. APJ. Abdul Kalam, Srinivasa Ramaniyam are examples of greats who achieved excellence in their fields from meagre beginnings. Vidyasagar, as a kid, had to resort to reading under the streetlights, where the lights at his house used to go out. It was these efforts that helped him become one of the most learned people of his times.

A habit signifies repeated action. A habit is something that people do almost everyday and are very familiar with it.

Students of Ramakrishna Mission Vidyalaya are taught to remain in a disciplined routine from their childhood years. It is not a surprise then, that many of these students excel in life.

An act, on the other hand, signifies a one-time action. There is no sense of repetition and hence, it is not possible to excel in the said action. This is the reason why there are exams, selection procedures — to separate the people who have made said action into a habit. ✓

Cricket trials by BCCI, the CSE exam conducted by UPSC are examples of the same. ✓

The journey to achieve excellence

I had a friend, Shyam, from the small town of Bokaro, who was studying to

crack the IIT JEE exam. He was an average student, when he started preparing. But, he had a zeal within him. He used to put in more hours than the rest of the students used to, practice a lot more questions. Slowly and steadily, he made it to the top rankers of our institute. He finally got an All-India - Rank of 52.

The journey to excellence requires persistence, a never-say-die attitude, the perseverance to get back up and try harder, every time we fall down.

'Success is never final,

Failure is never fatal,

It is the courage to continue
that counts'

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Someone who lost the 'courage to continue' strays from the path of excellence. ✓

Habit is the key

For anyone striving for excellence, habit is vital. It is the catalyst for success, the key that unlocks a successful life.

Habit allows us to make improvements.

Gandhiji wanted to make satyagraha and the ideals of swaraj and ahimsa the habit of the masses. That is why he stressed on their importance, on non-violence in the freedom movement. He opined that we cannot achieve Ram rajya by practicing the actions of Ravana. Today, developers of self-driving cars conduct multiple trials, so that the AI understands, develops

Struggle
Trove
Struggle

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the intelligence to separate between a tree and a pedestrian.

'Practice makes perfect'

Habit develops the subconscious. It develops the muscle memory of people.

The discoverer of benzene's structure was confused how such a molecule could exist. He could not determine the structure.

His sub-conscious developed to such an extent that he was thinking of a solution, even when he was sleeping. He dreamt of an ouroboros — a snake eating its own tail and woke up to discover the ring-shaped structure.

Habit reduces the unpredictability of events. Civil servant aspirants are advised to write enough mock tests. The idea is to

write these tests in an exam-like environment so that there is no unpredictable behavior on the day of the exam.

Such practice/habit makes the action seem less overwhelming than it is.

Gandhiji got determined and he understood that independence is near. Aspirants are not afraid to write exams anymore. A new driver is able to navigate urban roads, without getting distracted by the traffic and constant honking.

→ Such complications not needed.

Excellence — a tool among many

During my IITJEE preparation days, I had another friend, Kshitij, from a business-class family of Delhi. Kshitij never put in as many hours as Shyam. He

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studied for the few hours, played cricket, went for movies, hung out with his friends. However, he used to score as good as Shyam in the mock tests. Finally, he secured a rank of 197 ✓

A comparison between Shyam and Kshitij makes us realize that practice is necessary, but it is not the sufficient condition for excellence. ✓

Aside the constant zeal and habitual practice of an action, there are other tools necessary for excellence. A person should be amenable to corrections. Trying to break a huge boulder with a small hammer by hitting it repeatedly, is more likely to break the hammer. There should be constant introspection and retrospection by

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people. Action without a feedback loop is just action, and might not reap any benefits. A disciplined mind is another requirement. Only then can we realize the gains of our practice.

Thus, excellence = habit + open to corrections
+ introspection + retrospection
+ disciplined mind

v good

The journey to excellence needs all of the above, and proper guidance, mentorship can act as a catalyst to smoothen the road. Many historical personalities have highlighted the importance of a Guru, be it Gandhiji, Arjun or even Jesus.. ✓

Excellence, is thus not an impossible dream for anyone. Its mantra has already been given by Swami Vivekananda, one of the best youth leaders of India —

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'Arise, awake and stop not till the goal is reached'

50
125

Checked.

1. Discipline cultivates Motivation

- Habit
 - Regular routine
 - Part of life
 - Not linked with result.
 - Not materialistic or goal oriented
 - Mark / Business Tycoon.
- An Act - short term
 - Driven by an extreme emotion

2. Freedom Movement (Struggle, Truce, Struggle)

3. Geographically

↳ Hilly areas people more disciplined

↳ They take up challenging task on daily basis

↳ Gandhiji non violent, non cope

↳ Patience

" Ethical - Challenge teacher your self
with (3P) Patience, Persistence, Perseverance

5. Governance goal is to achieve excellence in Public Service delivery

UNDP
focus on
excellence in
good govt

↳ Not a one time act of good governance but a culture of good governance.

6. Excellence is widely used in bringing behavioural change during Covid by making hygiene a habit rather than an act.

7. Excellence comes from comparison
↳ receptive to change
↳ flexible.

8. Sports → Commonwealths Example of excellence.

9. Yoga - Excellence → knowing yourself better
↳ Control over senses.

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ACADEMY
India's Best Mentorship for Civil Services

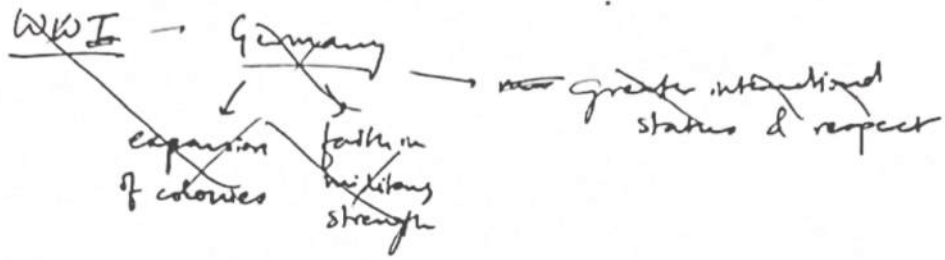
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Not all failures bring results.
It's the scientific process.
Hope is vital

Way forward
Benefit of failure → improvements

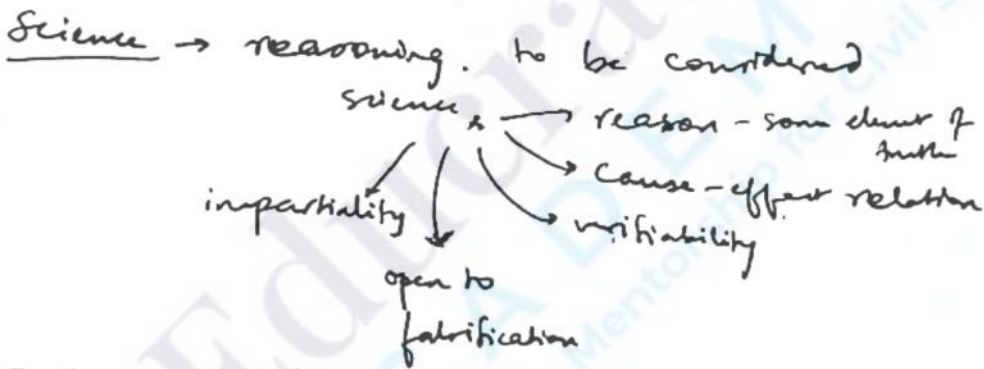
↳ guidance → lesson of hope
↳ incubators, ATAI mentorship

→ Losing hope is the biggest danger -
Dalai Lama



Science

→ Fleming → sitting in his lab
 culturing some bacteria.
 experimenting with influenza virus
 accidental discovery antibiotic
 no success, only failures
 antibiotics saved millions of lives from
 infection, WWII



Failure → no use
 → illogical
 → opposite of science, since science = ^{expansive} ~~act~~

There are failures in science = trials.
 Neural networks learn from failure. ↳ important for science. COVID vaccine
 Failure leads to → disappointment
 → feelings of unqualification, not good enough

Einstein's predictions thought wrong many years ago →
 proved by JET, Higgs Boson experiment.

Nobel winners for discoveries of decades ago

Gandhi's struggle → scientific → Gandhism
 → improvements

Elon Musk → almost bankrupt

SECTION B

- 1) Mobocracy is autocracy, multiplied a million times.
- 2) There are no failures in science
- 3) Hero worship of politicians breeds polarisation of masses.
- 4) Future belongs to countries with grains, not with guns.

There are no failures in science.

A young man was working in his lab researching on the influenza virus. He had been at work for a long time hoping for a breakthrough. He had been making cultures, mixing test-tubes, intent at finding a cure to the fatal disease of influenza.

One day, while cleaning out his desk, he saw a sort of mould growing in one of his cultures. He did not know what to make of it and started researching the mould.

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The young man's name was Alexander Fleming and it was his research of the mould that led to the discovery of penicillin; Fleming's discovery would go on to save millions of lives in World War II and beyond. A scientist considering himself to be a failure gave mankind a great gift.

Science is a rational subject. To be considered science, a discipline or research must include certain factors. There should be an element of reasoning involved. What we can reason bears a semblance of truth and science must be truthful.

Science should be able to establish a cause-effect relationship. There should be logical thinking involved. We must have all

seen an apple falling from a tree, but until Newton tried to analyse it and formed the laws of motion and gravity to establish a cause-effect relationship, it was not in the domain of science.

A scientific discipline must be verifiable. The conclusions of a scientific research must be replicated in different settings. If not, it is just a discourse and not really science.

Science is impartial. Researchers do not have any pre-conceived notions, which might result in a manipulated conclusion. Experiments done free from any biases bring out the most-accurate results.

At the same time, science should not be deterministic. Scientists should not worry about contradictions or criticism. Rather, they

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should welcome any efforts at fabrification.

It helps scientists refine their research.

Alfred Wegener gave the continental drift theory. Today, his theory has been disproven. However, it cannot be negated that his theory was instrumental in the development of the plate tectonic theory of today.

Failure is a conclusive term.

Something which is considered to be a failure has no use — today or in the future. In contrast to science, failure is illogical and cannot be considered rational. Science is a very expansive field and any logical line of thought can be considered scientific. Thus, failure is actually the opposite of science,

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because where rational thought exists, there is no scope for failure.

What can be considered as closest to failures in science are actually experiments or trials. They are not exactly failures. They are very vital as the stepping stones to success. In the development of a vaccine, hundreds of tests are run and trials are held. We should be thankful for these failures/trials for improving the COVID-19 vaccine until we got the safest, most accurate versions possible.

Einstein, in his research, provided many predictions about the laws of physics and the universe, which were considered very absurd and illogical. Today, the experiments at CERN and

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Space observations have confirmed many of his theories. What might have been considered as a failure then, is held to be scientific today.

If we look at the list of Nobel winners in scientific domains, we realise that Nobel laureates are often awarded for research work done many years prior. Their research done decades ago, which might have been considered irrational, get recognised many years later when the applications of their research becomes relevant.

Such failures in scientific experiments often leads to feelings of disappointment among scientists. Researchers may start feeling

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like they are not good enough, not qualified enough. People might give up on their work. There have been many instances of disappointed and frustrated researchers giving up their pursuit of science and choosing other pursuits. ✓

However, science is not for the less-perseverant. Gandhi's ideology/Gandhism is considered scientific as he was able to understand the psychology of the masses and turn the national movement into a mass movement. He led many revolutions against the imperialist powers and each revolution was a scientific trial. With every trial, he analysed his failures and improved on them in the subsequent struggle. He

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failed many times, but he persisted.

And eventually, he concocted the perfect formula for independence ✓

Elon Musk started many ventures in his life. He developed Paypal, started Tesla, as well as Space X. Space X was a very expensive venture and he invested all his gains from other ventures into Space X, which kept meeting failure after failures. One time, he was almost bankrupt. But his plan was undeterred, his faith was undisturbed.

His persistence bore fruit and today, Elon Musk is the richest person on Earth and SpaceX is a successful thriving venture.

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Thus, the scientific process is a lesson of hope, dedication and perseverance. We must realise that not all trials can be successful. Science is about finding the one successful version after 99 unsuccessful ones. Hope is vital. There is always sunlight at the end of a dark tunnel.

Failures are lessons in improvements. They should not be ignored, rather studied. The cause of failure should be analysed. Students who are unable to qualify an examination are advised to analyse the question paper and understand their weaknesses. This is a part of the scientific process.

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To reduce the intensity and frequency of failure, a guide's role is instrumental. An instructor can assist researchers, scientists to understand their weaknesses. It gives a new set of eyes to analyse the problem. The Indian government has realised the role of mentors and is setting up incubators all over the country. NITI Aayog has started the mentorship programme under Atal Innovation Mission to guide young startups to excel their product.

The govt needs to encourage scientific research in the country further and remove the association of luck with research. Students should be informed

that science has rather to do with dogged persistence, constant improvements and hope. America would not have been discovered unless Columbus set out on the hope of finding India. The Dalai Lama, himself, has stressed on the importance of hope —

50.
125

'Losing hope is the biggest disaster' checked

1. Do not ~~delve~~ dwell much into the definition of the topic.

2. Open the dimension — PESTEL framework
↳ 5 Pillars

↳ Covid

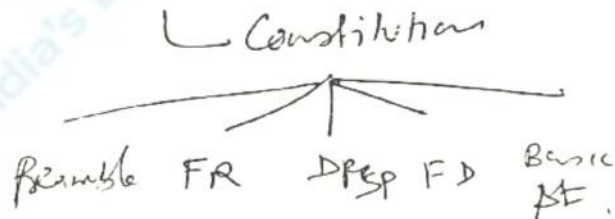
↳ Cyber Security

↳ Digital India

↳ Yoga/Meditation

↳ Educal Science

↳ Humanism/Mindfulness



↳ Nuclear blast

↳ Chernobyl

↳ Bhopal Gas Tragedy

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Science can lead to disaster if not well documented, researched & planned, executed through trials

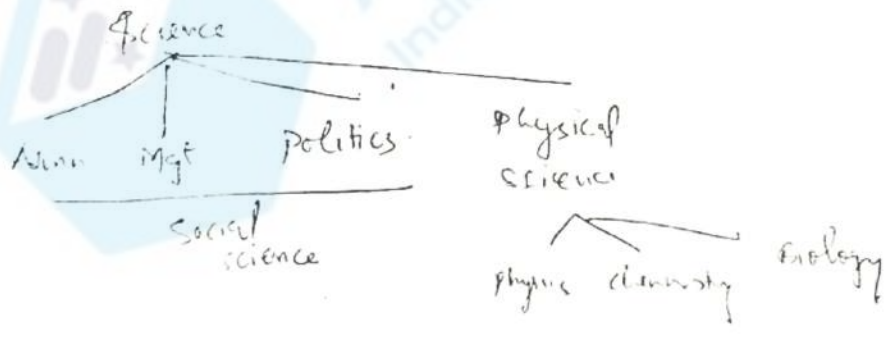
Et Jai Jawan
Jai Kisan
Jai Vigyan
Jai Anusandhan

Vaccine
Trials.
→ 1st dose
→ 2nd
→ 3rd

India largest vaccine manufc

FD - Scientific temper, spirit of inquiry & reform
IRP - liberal / intellectual

Niti Aayog - Policy Science
↳ Science in policy making & implementation



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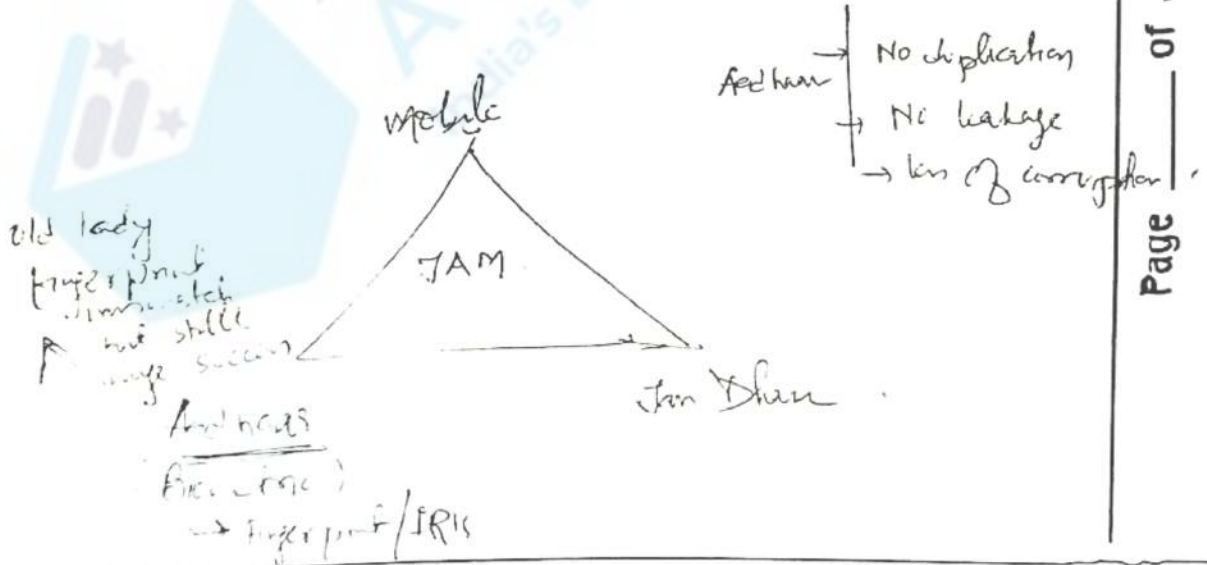
ISRO Success/Failure.
 ↓ ↓
 Innumerable SSLV

Space Science → GPS → wrong routes.
 ↳ Spectrum → 5G → Call drop.
 ↳ Lifeline.

Start Ups / Unicorns }
 on scientific Dev. } Atmanirbhar
 Bharat

Digital India Mission → Privacy
 ↳ Cyber security
 ↳ Data Hacking

Data Hacking → Experiments & ideas of young
 minds as way to prevent any possible
 Hacking.



CoinIN - Only India has developed a portal which certifies whether a person is vaccinated or not through an App.

LIP1 → Lifeline of Digital banking.
→ But risk of fraud transaction.

Atal Innovation Mission (AIM)

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