

TEST CODE 6 2 0 3 0 4

FIAS - MGP 2023 - Cohort IJ - Essay Test (FLT) #4

Time Allowed : Three Hours  
समय : तीन घंटे

ForumIAS

Maximum Marks : 250  
अधिकतम अंक : 250

## ESSAY / निबंध

Name Of Candidate  
परीक्षार्थी का नाम

JEENU SRI JACWANTH CHANDRA

Roll No./अनुक्रमांक

Medium/माध्यम

English  हिंदी 

Center Code/परीक्षा केंद्र

Date/दिनांक

12-09-2023

Center Code - Po Chittoor - 1900 / Delhi - Karol Bagh - 1901, ORN - 1902, Mukherji Nagar - 1903 / Patna - Boring Rd. - 2001 / Hyderabad : Jawahar Nagar - 2101

INDEX TABLE / अनुक्रमणिका			INSTRUCTION / अनुदेश		
Q. No. प्र.सं.	Max. Marks अधिकतम अंक	Marks Obtained प्राप्तांक	1. Please do furnish Name, Email, Roll No and Mobile in the answer sheet. कृपया उत्तर-पुस्तिका में नाम, ईमेल, रोल नंबर और मोबाइल नंबर भरें।		
Q.1			2. There are TWO Sections. Each Section has MULTIPLE topics printed in English/Hindi. You have to write on 1 topic from Each part. प्रश्न पत्र में दो खंड हैं। प्रत्येक खंड में अंग्रेजी/हिंदी में बहु-विषय मुद्रित हैं। आपको प्रत्येक भाग में से किसी एक विषय का लेखन करना है।		
Q.2			3. One question in each part is compulsory. प्रत्येक भाग में से एक प्रश्न करना अनिवार्य है।		
Total Marks/कुल अंक			4. The number of marks carried by a question/part is indicated against it. एक प्रश्न/भाग द्वारा किए गए अंकों की संख्या इसके सामने इंगित की गई है।		
Remarks/टिप्पणी :			5. 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. उत्तर प्रवेश पत्र में अधिकृत माध्यम में लिखे जाने चाहिए, जो कि दिए गए स्थान में इस प्रश्न-सह-उत्तर (क्यूसीए) पुस्तिका के कवर पर स्पष्ट रूप से लिखा जाना चाहिए।		
			6. Word limit in questions, if specified, should be adhered to. प्रश्नों में शब्द सीमा, यदि निर्दिष्ट हो, का पालन किया जाना चाहिए।		
			7. Any page or portion of the page left blank in the Question-Cum Answer Booklet must be clearly Struck off. प्रश्न-सह-उत्तर पुस्तिका में खाली छोड़ा गया कोई भी पृष्ठ या पृष्ठ का भाग स्पष्ट रूप से काट दिया जाना चाहिए।		
<b>For Student Only / केवल परीक्षार्थी प्रयोग हेतु</b>					
Start Time/प्रारंभ करने का समय :			End Time/समाप्त करने का समय :		
Mode Of Examination/ परीक्षा की विधि :			Online/ऑनलाइन <input type="checkbox"/> Offline/ऑफलाइन <input type="checkbox"/>		
<b>For Office Use Only / केवल कार्यालय प्रयोग हेतु</b>					
ECN CODE/ ईसीएन कोड :		EG/ईजी :		Evaluation Date/ मूल्यांकन तिथि :	
		① ② ③ ④ ⑤			

**MARKING SCHEME**

<b>Parameter/ criteria</b>	<b>Aspects Considered</b>	<b>Marks Allotted</b>	<b>Essay 1</b>	<b>Essay 2</b>
<b>Basic Format</b>	Introduction	10		
	Body	15		
	Conclusion	10		
<b>Content</b>	Topic interpretation	10		
	Quotations and ideas	10		
	Analytical skills	10		
<b>Organization</b>	Flow of ideas	10		
	Absence of deviation	10		
	Ease of reading	10		
<b>Language skills</b>	Language and sentence construction	10		
	Grammar and spelling	10		
<b>Examiner's discretion</b>	perception/ innovation/ engaging	10		

<b>Parameters</b>	<b>Very Good</b>	<b>Good</b>	<b>Average</b>	<b>Poor</b>
<b>Coherence</b>				
<b>Language</b>				
<b>Handwriting</b>				
<b>Pre-writing</b>				

<b>Very Good</b>	<b>Good</b>	<b>Average</b>
120 and above	100-120	Below 100



### SECTION - A

1. Before the borders are broken the minds are invaded.  
सीमाओं को तोड़ने से पहले दिमाग / सोच पर आक्रमण किया जाता है।
2. Talent and passion are only useful tools if one has the work ethic to back them up.  
प्रतिभा और जुनून तभी उपयोगी उपकरण हैं यदि किसी के पास उन्हें सहारा देने के लिए कार्य नैतिकता है।
3. The opportunity of interfaith dialogue: modern solution for globalised world.  
अंतरधार्मिक संवाद का अवसर : वैश्वीकृत दुनिया के लिए आधुनिक समाधान।
4. The only impossible journey is the one you never begin.  
एकमात्र असंभव यात्रा वह है जिसे आप कभी शुरू नहीं करते हैं।

TALENT AND PASSION ARE ONLY USEFUL TOOLS  
IF ONE HAS THE WORK ETHIC TO BACK THEM  
UP

"I wake up early, I stay up late  
Day after day, year after year  
It took me 17 years and 114 days  
to become an overnight success"  
- Lionel Messi

Talent is something we are all  
dazzled with. We all love to see Lionel  
Messi dribble through the defenders and  
we declare that God made Lionel Messi

to play football, thus attributing his success to his talent.

While this may be partially true, it doesn't paint the whole picture. As Lionel Messi conveyed in that quote, it takes a lot of hard work behind the scenes which we don't get to witness. Thus, it is not just the talent or the passion that makes a person successful, it is how one backs it up with a strong <sup>work</sup> ethic that determines his progress.

In this essay, we shall see how talent and passion ~~are~~ fall short unless coupled with work ethic. We shall also see some learnings and takeaways ~~as~~ to for inculcating the same in ourselves ~~us~~ so that we as a society, can reach greater altitudes. So let's get started!

Success... it is something that we all aspire for as individuals at a personal level and as a society at collective level. But what constitutes the recipe for success? Why is that a few individuals are able to overcome impossible odds and succeed whereas some fail despite having the odds in their favour?

The first ingredient for achievement is talent. Talent is nothing but a natural advantage, one has in performing a task. This is clearly seen in the likes of Sachin Tendulkar and data Mangulkar whose natural abilities in their professions gave them a headstart over others enabling them to excel in it right from a young age.

The second ingredient is passion. It refers to a genuine love towards the task as seen in the likes of M.F Humain and A.R. Rehman. It can also involve an undying commitment to a worthy cause as seen in the likes of Mother Teresa and Kailash Satyarthi.

But do talent and passion suffice for success? The answer is a No. We have seen the likes of North Korea and South Korea who had similar talent in terms of resources and the likes of Tendulkar and Kambli who shared similar talent and passion. However the final outcomes couldn't be more ~~to~~ different.

## MID - ESSAY REVIEW

This leads us to the most important ingredient for any worthy achievement - a strong work ethic. It refers to an unwavering commitment to one's mission. We shall further explore various dimensions of work ethic and how it is indispensable for success.

To begin with, work ethic refers to plain and simple hardwork. In the book Outliers, Malcolm Gladwell refers to the 10,000 hour rule i.e. one needs to dedicate atleast 10,000 hours to achieve mastery in any field which requires a strong work ethic. This can be seen in the likes of legendary directors like S.S. Rajamouli and Christopher Nolan who spent decades honing their craft.

In addition to this, a strong work ethic involves a good consistency in practice. This is seen in the likes of companies like Tata and Apple who delivered decades of quality output to reach a dominant market position.

Furthermore, work ethic involves persevering even in the face of repeated setbacks. This quality of perseverance has been repeatedly highlighted in various forms. For examples, our childhood stories of hare and the tortoise and the story of crow and the water jug highlight this very quality of perseverance.

To add on, work ethic also implies the quality of not complaining

and making the most of one's resources. To illustrate, Vikram Sarabhai and Homi Bhabha led India's scientific development with meagre resources which became possible only due to their strong work ethic.

Moreover, work ethic involves having a strong focus and commitment towards the goal as seen in the likes of countries like India who stood committed to their values even in tough times and are on the path of progress.

Similarly, work ethic involves constant improvement, a factor needed for continued success. It is this dedication to improve leading to continued success of Neeraj Chopra at the

world stage. On the other hand, stagnation has led to the downfall of giants like Nokia, Orbit, Yahoo etc.

Work ethic also involves treating one's profession with respect. This implies commitment to a strong ethical code and not taking shortcuts. Not adhering to this can lead to disastrous consequence as can be inferred from the downfalls of cyclist Lance Armstrong and IT giant Satyam computers.

To add on, success in any field demands work ethic not just in the physical side but also from the mental side. It involves the commitment to train one's mind to function at the best under pressure circumstances. This was displayed

by Abhinav Bindra who practiced shooting under adverse circumstances created intentionally to make his mind ready for any eventuality.

Similarly, it requires practicing detachment for one to be able to execute skills to the best of his/her ability. This need of training oneself for to become detached was emphasized by Lord Sri Krishna in Bhagavad Gita. A modern day example for the same is MS Dhoni who constantly speaks about focusing on the process and letting the result take care of itself.

So from all these illustration, we can surely say that it requires a healthy mix of talent, passion and work ethic which takes one

closer to success. So, having understood the importance of work ethic, how do we ensure the cultivation of a strong work ethic.

The first step to cultivate a strong work ethic is to have a growth mindset. In the book Mindset, Carol Dweck writes about her research where children praised for their talent stopped seeking tougher challenges. This is because they linked their success to talent and thus a failure in a tougher challenge would negate their talent.

On the other hand, children who were praised for their work ethic showed a great curiosity and were ready to take on tougher challenges as it provides them an opportunity to display their work ethic.

The key learning from this is to place our focus squaridly on the efforts and accept whatever the outcome with equanimity.

Once we cultivate this mindset, we can focus it in a field which comes slightly naturally to us. An example is Kobe Bryant finding his calling when ~~he~~ playing basketball just came naturally to him.

Another requirement is to choose a field which we have a genuine love for. As Naval Ravikant says "Do something that looks like play to you but work to others". Examples include entrepreneurs like Steve Jobs and Phil Knight who were intensely passionate about what they were doing.

Once we manage to achieve this healthy combination, one can be reasonably assured that ~~see~~ some worthy achievement is in the waiting. Even if it doesn't come, just pursuing a field in which one is passionate, and talent ~~by~~ coupling with a strong work ethic gives a strong sense of fulfillment.

The history of humanity is replete with examples of such people who altered the course of humanity. It is up to us to seek learnings from their lives and imbibe a strong work ethic so that we as individuals and as a society continue to scale greater heights in every field of human endeavour.

**FEEDBACK**

 **FORUMIAS**



### SECTION - B

1. Science applied is the engine of humanity.  
व्यावहारिक विज्ञान मानवता का इंजन है।
2. Eyes cannot see what the mind does not know.  
आंखें वह नहीं देख सकती जो मन नहीं जानता।
3. Doubt is the origin of wisdom.  
संदेह ज्ञान का मूल है।
4. The relation between environment, resources and conflict is same as the connection between Democracy, human rights and peace.  
पर्यावरण, संसाधन और संघर्ष के बीच का संबंध वैसा ही है जैसा लोकतंत्र, मानवाधिकार और शांति के बीच का है।

SCIENCE APPLIED IS THE ENGINE OF  
HUMANITY

Let us imagine a scenario in which we succeed in making a time machine and make a ~~caveman~~ <sup>Mauryan emperor</sup> time travel to the current day. There is no doubt that the emperor would be awestruck by the advances made by humanity ranging from flying drones and aeroplanes to handheld devices which provide global information at the click of a button. Surely, a common man

of today has more facilities at one's disposal than an emperor of yesteryears.

In the same way, we would all be surprised at the simplicity of life in that period. Just like Gen Z's find it difficult to imagine an era without mobiles, we would perhaps struggle to comprehend how people managed to survive with limited advancements.

The vast gulf in the state of society between the two eras boils down to a singular factor - applied science.

It is science applied which truly transformed our lives and it can be surely said as the engine of humanity.

Taking the discussion forward, in the essay, we shall explore how applied science acted as the engine of humanity. We shall also see some issues arising in that engine due to various

factors and conclude with some practical steps to ensure that the engine of applied science keeps delivering more output.

So, before we begin, let us briefly discuss about applied science. Science refers to the observation and exploration of phenomena around us to make logical inferences. Applying that acquired knowledge ~~makes~~ to solve problems of humanity has transformative potential.

To begin with, application of science is the foundation stone of all the technologies we see around us ranging from mobiles to spacecrafts. These are getting further enhanced & by the advent of new age tech in AI, IOT etc.

In addition to this, science helps us in optimisation of existing resources. This can be seen in the manufacture of energy from municipal waste through

pydylis or the rise of Japan post nuclear attack with the power of science and research

likewise, applications of science enable us to breach new frontiers which were once deemed impossible to cross. For instance, achieving anti-ageing in yeast and space tourism by Jeff Bezos and Richard Branson were unimaginable few years ago.

Furthermore, science helps us in better and improved decision making.

This can be seen in the case of Indian government using data from Aarogya Setu for handling of Covid pandemic and social media companies like Meta using data analytics to decide on content personalisation.

### MID - ESSAY REVIEW

Not only this, science helps the human race to become more humane thus truly acting as an enabler of humanity in all of us. This is best illustrated by ~~the~~ environmental science propelling the conclusion of Montreal protocol or the deployment of technology in animal conservation projects like Project Tiger and Project Cheetah.

To add on, applied science isn't just limited to creation of new technologies. Areas like social science help us in making the world a better place for everyone - from women to marginalised sections to persons of colour. For instance, research of social scientists like Amartya Sen and Abhijit Banerjee help the government in framing better policies for the downtrodden.

Besides, science helps us in laying the basic framework of the society we live in. This has been seen in various theories of political science impacting governance ranging from Chanakya and Sun Tzu of ancient times to the modern day proponents of democracy.

Also, the benefits of science don't purdy result from its application in the outer world. Study of science itself has huge inherent benefits which by themselves fuel humanity's progress.

Science helps develop a rational outlook in the society which can result in reforms. This can be seen in the efforts of social reformers like Jawahar Chandra Vidyasagar and Kandukure Veenalasingam adopting a rational outlook to societal issues.

Moreover, it helps in the inculcation of a questioning nature fuelled by inquisitiveness. This is best illustrated by Copernicus questioning the well accepted geocentric theory or Einstein questioning Newtonian mechanics which were universally accepted till then.

Furthermore, experimentation with science enables individuals to take failure in their stride, ~~and~~ seek learnings and try again with renewed vigour. For example, it was this very nature which helped ISRO bounce back from its failure of SLV-III launch in 1979 and the much recent landing failure of Chandrayaan-2.

Finally, individuals who pursue science with a pure intent derive genuine joy out of it thus making them

experience the inherent joy of human life. This feeling of intrinsic motivation and joy is beautifully depicted by Dr. Abdul Kalam in his book 'Wings of Fire' and the character Rancho in the movie 3 Idiots.

So far, we have seen how applied science acted as the engine of humanity. But just <sup>like</sup> electric vehicles, occasionally get caught up in flames due to engine malfunction, the same science is setting fire to the destiny of humanity.

Firstly, pursuit of applied science for self-centric benefits has resulted in the weaponisation of science. This can be seen in usage of nuclear bombs by USA against Japan to stamp its geopolitical superiority. Another instance

is social media companies misusing data to increase addictive behaviour among teens

Secondly, we are so caught up in science based tech that we end up cutting the very branch we are seated on. To illustrate, the increase in screen time has resulted in degradation of health and human activities has resulted in pollution of air and the erosion of biological capacity of environment

Finally, though it is undisputed that science has made our life far more comfortable, its impact on happiness quotient remains questionable.

Various studies point out that mental health issues are on the rise and the fact that they are more prevalent in developed countries denote that applied science hasn't been able

to achieve the fundamental goal of human life which is to be happy.

Taking an overview, despite these limitations, applied science has done a transformative job in altering the course of humanity. We shall now proceed to see some actionable steps to build on further.

Firstly, we need to work on increasing the aspirational value of pursuing science in the society.

Similar to how Shark Tank has been able to increase the aspirational value of entrepreneurship, having a show on similar lines depicting research advancements can create role models out of scientists and inspire the future generation to pursue science as a career.

Secondly, ~~we~~ since the destiny of a nation is shaped in its classrooms, there is an urgent need to revamp the education system. As Margaret Mead says "Children must be taught how to think, not what to think". Inculcating critical thinking and fostering inquisitiveness in children is the need of the hour.

Finally, we should ensure that science should remain inclusive at all levels. This needs to be achieved through strong governance mechanisms at all levels ranging from local bodies to multilateral organisations. Recent instances of tech diplomacy talking of technology transfer to developing countries is a good start.

To summarize, we have seen how science applied has truly acted as the engine of humanity. We have also seen emerging issues and discussed a few actionable steps for the future.

Science, like most things in life is a double edged sword. We must recognise that it is a tool to achieve greater ends and we must ensure that the ends are in line with the vision of Vasudhaiva Kutumbakam and Sarvodaya. So far, applied science has acted as the engine of humanity. It is time that human values act as the engine of science so that humanity can be propelled to greater heights as a whole.

**FEEDBACK**

FORUMIAS

SPACE FOR ROUGH WORK

**SCIENCE ENGINE OF APPLIED HUMANITY**

Covid → tech  
 Newton - apple  
 Kalam, Sachin, Kohli, Curie,  
 Panayari, HC Verma,  
 Japan, S-Korea, Israel  
 HC Verma  
 doak matter  
 Elon Musk - space x, space tourism  
Chandrayaan - Chandramana doo ke  
 → Ek tour ke  
 Society → conclusion  
 social science - Ananya Sen, Abhijit Ranjani  
 Polit. science - Democracy  
 digital payments.  
 AI, IOT, metaverse,  
 (4) - comfort  
 (5) - social science  
 (6) - political science  
 (7) - democracy

1.5  
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 6-5  
 Political science  
 Biology  
 Science  
 Physics  
 Chemistry  
 Tech  
 Social  
 Medicine  
 data backed evidence  
 Tech deupt - mobiles, AI, niches  
 Rationality -  
 Social deupt - Amartya, Abhijit  
 Biology - anti - aging  
 Best possible way - lithium, waste from energy  
 Truly humane  
 Rationality  
 Environment - Proj Tiger - tech  
 Osare  
 Questioning  
 New frontiers - Jay

**Counters**

Joy of it  
 Future me  
 Rational thinking  
 • Old bikes fire danger to humanity  
 (AI, climate change)  
 Way find  
 schools, societal  
Shank Tank