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MGP 2023 - (C-13) Alt - Essay Test (FLT) #4

31 AUG 2023

ForumIAS  
ACADEMY

Time Allowed : 3 Hours

समय : 3 घंटे

**ForumIAS**

Maximum Marks : 250

अधिकतम अंक : 250

**ESSAY / निबंध**

Name Of Candidate परीक्षार्थी का नाम	ADITYA HRIDAY UPADHYAY		
Roll No./अनुक्रमांक	<del>1910090775</del> 1910090775	Medium/माध्यम	English <input checked="" type="checkbox"/> हिंदी <input type="checkbox"/>
Center Code/परीक्षा केंद्र	oFN 1902	Date/दिनांक	31/08/2023

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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. Write <b>two</b> essays, choosing <b>one</b> topic from each of the following Section A and B in about 1000 - 1200 words each. खण्ड A व B प्रत्येक में से एक विषय चुनकर दो निबंध लिखिए, जो प्रत्येक लगभग 1000 - 1200 शब्दों का हों।
Q.2			3. 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।
Total Marks/कुल अंक			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. 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।
Remarks/टिप्पणी :			5. Word limit in questions, if specified, should be adhered to. प्रश्नों में शब्द सीमा, यदि निर्दिष्ट हो, का पालन किया जाना चाहिए।
			6. 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।
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Start Time/प्रारंभ करने का समय :		End Time/समाप्त करने का समय :	
03:10PM		06:10PM	
Mode Of Examination/ परीक्षा की विधि :		Online/ऑनलाइन <input checked="" 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

<i>Parameter/ criteria</i>	<i>Aspects Considered</i>	<i>Marks Allotted</i>	<i>Essay 1</i>	<i>Essay 2</i>
<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		

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

<i>Very Good</i>	<i>Good</i>	<i>Average</i>
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।

Only 2 impossible journey is one you never begin.

In Haryana lived wrestler Mahavir Singh Phogat. He wanted his daughter to win a wrestling medal for the country. Society always condemned him saying women have no future in wrestling, they are meant for household work. Even his family tried to stop him from training his daughters. He vowed to give his all before giving up on his dream.

He fought with society, family, financial condition to help his daughter win first wrestling medal in Commonwealth Games. His efforts led to a revolution with India winning many World Championship, Asian Games and an olympic bronze in the near future. It's hard to imagine where India's wrestling would have been without efforts of Mahavir Singh Phogat's initiative.

This story of Shri Phogat is a testament to how taking a first bold step is critical to a revolutionary success. This essay explores the

the subjects - "Taking first step" "Nothing is impossible"  
 "What resists initiative" "What should we do make impossible possible"

## Taking first steps - Initiative

First step towards execution of any task and accomplishment is ambition.

Developing the right mindset and aiming is sine qua non for right actions. It provides

strong purpose to our actions, helps us tide over difficult circumstances and also helps

to influence others. Great people with great actions always had great ambitions and took the initiative. Mahatama Gandhi aim for 'Swasay'

was seemingly <sup>impossible early</sup> in 1900s, Galileo scientific ideas

appeared unrealistic to people and People laughed

at Kapil Dev's claim of India winning 1983 world cup.

At the end these people were able  
to achieve these ambitions and bring  
a revolutionary change to nation, world.  
Hence developing ambition and taking first  
initiative are critical to success.

Nothing is impossible Once you Begin

Once begin and aided with hardwork,  
perseverance, work-ethic, evolution its inevitable  
at the most times that success is just a  
formality. This may appear big mouthed but  
can be observed in various spheres of life

### MID - ESSAY REVIEW

across time and space. Let us start  
with religion and spirituality.

Puranas, Epics of Mahabharata have numerous  
stories of accomplishment of seemingly impossible  
tasks. In Ramayana, in search of <sup>Lord</sup> Sita, Hanuman  
came after big ocean and was hopeless. When  
inspired by Jamwant he took the initiative and  
reached Lanka countering various difficulties.

Also, In Bhogwata Purana there is story of Dhruva  
who left his home at age of mere child to  
get a bigger kingdom. He engaged in severe austerity,  
There was danger of animals, people tried to discourage  
him but he was steadfast and achieved his dream  
of witnessing God and seeking his blessing.

Let us examine the competitive sphere of present  
domain politics.

Politics is considered a harsh field with wealth, influence, connections critical to success.

However hardwork, ambition and persistence has given rise to great stories. Abraham Lincoln despite humble background and repeated failure

never gave up and became President of United States.

Present PM of India Sh Narendra Modi was a tea seller but he aspired high and engaged in public service to become the President of India. Let us turn our focus to the Scientific Domain.

Science has rationality as its basis. Many things which appear irrational often end up

becoming a reality with effort, ambition, initiative.

India after independence was a poor country. There was opposition to India's focus on space research.

It was considered impossible task for India. From launching rocket to satellite and now becoming first country to land on moon's south pole appears unreal. More and more example can be seen from past. Nicholas Copernicus undertook the seemingly life threatening voyage which established Heliocentric Theory and shape of Earth. Some of biggest discovery and inventions appeared irrational and impossible.

What stops us from beginning.

There are several instances from our life and those of others whereas taking the first steps appear difficult. This prevents the gateway to big achievements for future. This results from various causes.

First is lack of belief in ourselves. We do not trust our abilities and those of others surrounding us. We have an inferiority complex towards ourselves. A great example is attitude of Indian leaders and Population before Nationalist struggle during British Rule. It was considered impossible to challenge British until leaders like Tilak, Gandhi and

Another reason is fear of failure. We do tend to think of consequences of failure — social insult, waste of efforts, what others will say. This prevents from taking the first step. A great example is English Cricket Team. For long their approach was cautious and full of susceptibility but under Coach McCallum they transformed their cricket to suit their aggressive style without worrying about result. This has resulted in great success over last year.

Last but not least cause is aversion to hardwork and difficulties. Most people are unwilling to go through difficulties of process and wish to remain in comfort zone. This has led to them pushing away from difficult task. A great example is present day youth who do not want to go through difficulties and want shortcut to success. This results in their inability to fulfil their potential.

### Beginning and Navigating the journey .

It is said "Well Begin is only half done". Taking initiative and having ambition is not enough. It needs to be backed by several other qualities if one wants to reach destination within time.

First is hardwork and ethic. They are essential to gradual improvement and difference making effort.

Virat Kohli was a very talented kid but his exponential growth <sup>took</sup> when in 2012 he decided to take his work-ethic and lifestyle to a new level.

Without work-ethic many potential success are hampered. Another individual exemplifying this is Cricketer Vinod Kamble. Despite immense talent his potential got wasted.

Another quality is perseverance. It is important to keep believing in the process. It is important to remain confident when faced with setbacks. Abraham Lincoln did not give up because of repeated losses,

Mahatma Gandhi never bowed down before British despite arrest, violence and exploitation. To make impossible possible it is important to hold our <sup>our</sup> fort during the storm.

One needs to keep learning from his experience and those of others to keep evolving.

This improves one's effort day by day & ultimately leads to largescale impact. APJ Abdul Kalam was rejected by Air Force but he kept learning & improving and ultimately became "Missile Man" -

It is rightly said "Impossible is the word found in the dictionary of fools". We should never resign to any difficult task. With strong desire and enthusiasm we should take the initiative. We should drive away self doubt, fear of failure. Our initiative needs to be followed by hardwork and dedication. Today's world is replete with issues of Climate Change, Resource crunch, conflicts. These appear unsuamountable task. Today's youth need to imbrile

the spirit of these essay and begin  
surmounting these towering challenges. It is sure  
that with cooperation, determination and coordinated  
action we can make the impossible possible.

**FEEDBACK**



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 engine of humanity.

Science has the vehicle for the monumental changes in this world. Scientific Industry Study and their application have led to Industrial Revolutions, Economic Boom and upside changes in the lives of ordinary men's.  
What is essential to understand that

Science itself has no tangible success but when applied in right direction and form it can help achieve big results. This essay discusses implications of Applied Science on humanity touching questions of

"What is applied Science" "How Applied Science powers humanity" "How Applied Science endangers Humanity" "How to best use applied Science?"

What is applied Science

Science in itself study of physics, chemistry, biology and related intricate concepts. Applied science is when theoretical knowledge is applied to produce a tangible

result in present day world. Knowing  
 "Electric Charges" is Physics but using it to  
light a bulb is Applied Science. Knowing human  
cell is science but using it to create  
stem cells is applied science. Many more examples  
 can add to understanding of applied science.  
 It is essential to understand how science has  
 powered humanity over course of time.

Applied Science powering humanity.

Applied science has the power to manipulate  
the resource of nature and its processes to  
advantage of humans. It utilises understanding  
 of various processes to build devices to help the  
 humans improve various dimensions of their life.

Let us start with mechanical energy. Knowledge of conversion of mechanical to chemical to mechanical energy has led to transportation revolution aiding trade, connectivity and economic growth. Advent of aeroplane, helicopter has helped in large scale disaster management and emergency crisis such as operation ~~Dovishakti~~ Ganga in Russia-Ukraine War.

Wave energy and radiation transportation sector has led to development Information & Communication Technology sector. First Mobile Phones arrived and then Internet has completely changed face of world. Phones help us communicate urgently with any part of world. Internet has revolutionalized sectors of education health and governance. NPTEL, SWAYAM have

MID - ESSAY REVIEW

democratized access to quality education. Direct Benefit Transfer, Online RTI, Grievance redressal have transformed governance framework in India reducing menace of corruption.

Also, Biology enables study of Human body. Its applied form in biotech has led to advent of new dimension to medical world. It has enabled development of vaccine such as COVISHIELD, COVAXIN to protect us from deadly diseases. Gene editing has helped in Stem cell therapy, CAR-T-Cell Therapy overcoming diseases like Cancer. There are numerous ongoing research with immense potential.

In recent years, use of modelling and simulation to develop Artificial intelligence has completely transformed world. It has enabled Machines to replicate human function to-a-limited

Level - Chat GPT, E-commerce, Doing  
Redundant Task are all application of AI.

Potential of AI is unlimited with many  
possible positive implications.

However, science in applied form can also  
prove disastrous to humanity.

Science in applied as a disaster to humanity

Science is like a knife. When applied  
incorrectly it can even commit a murder.

In addition to its positive impact, its misuse  
has also resulted in various negative implications  
on the world across time and space.

Firstly, Nuclear Energy opened the door to  
large scale automation and electrification. However  
its weaponisation resulted in those bomb

attacks of Hiroshima and Nagasaki  
killing crores of people. Till date It is  
used as a threat during bilateral conflict  
endangering lives of countless people.

Use of science to create transportation  
communication power infra has led to secure  
Environmental Impacts. Deforestation, GHG  
Emissions have led to warming of Earth by  
1.02°C as per IPCC. This has led to increase in  
extreme events and large scale disasters for world.  
Also it has interfered with habitat of plants  
and animals denying Nature with crucial ecosystem  
services.

Internet intended to connect people  
has been also utilized as dividing medium.

Cyber-bullying, child pornography, smsware attacks are possible via internet. Today Dark web is utilised to radicalise people and produce deepfakes to spread hate propoganda. Rather than being an engine to connect humanity, it has ended up being an instrument to divide and destroy it in above cases.

Rightly Applying the Science.

Having seen the both aspects of science, It is essential to understand how to apply science in the correct way. There is need to provide the correct direction to scientific application.

First of all we need to use the science within the limit that benefits the

Environment. Any technology that is not sustainable is not valid. We need to move on from fossil fuel to solar, wind energy to achieve the goals of COP-26 Agreement.

We need to restrict availability of technology to responsible country and institutions.

We need to prevent latest technology from falling in hands of terrorist, criminals. As a structural change we need to ensure a crime free population by education and efficient law and order system.

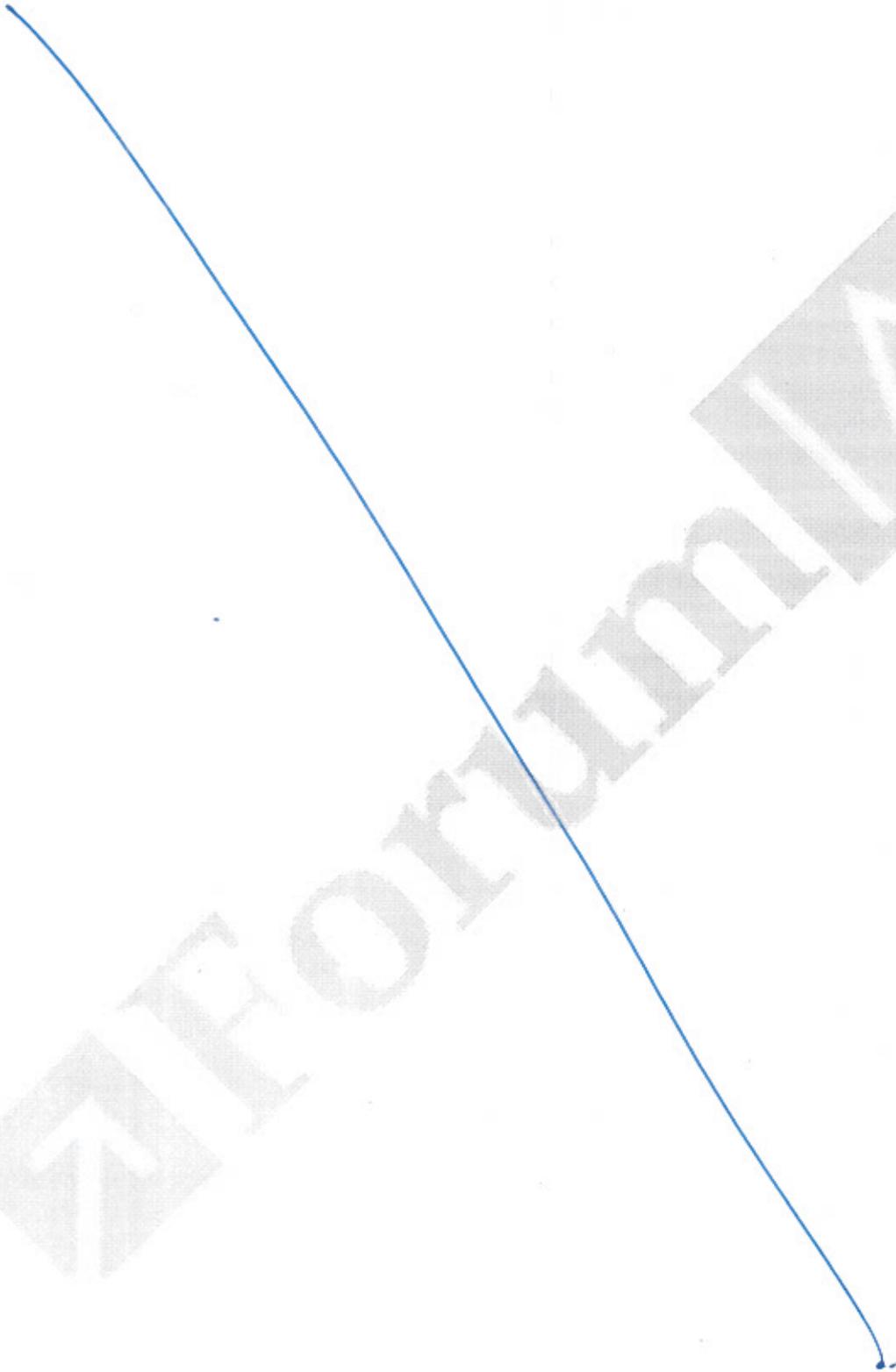
We need to ensure global collaboration in the field of technology to ensure equitable access and responsible use. There needs to be enforceable rules and regulation to

prevent misuse of technology. Nuclear  
Non-Proliferation Treaty needs to be strengthened,  
UNFCCC agreements need to be enforceable. For  
emerging technologies RAISE (Responsible AI for All)  
is a good initiative. We need to imbibe the  
principle of "One Earth, One Family, One Future".

At the same time, we need to continue  
promoting and supporting scientific research.  
We need to build ecosystem for producing  
quality scientists. We need to appreciate Missions  
like Chandrayaan-III, Artemis aimed at global welfare.  
We need to commit funds and institutional  
support for a flourishing scientific community.  
Our positive support will enable right development  
and utilisation of applied science.

Science when applied can be a boon to humanity. Till now what we have seen is just tip of iceberg. There is a lot unthinkable that is possible. However, misuse and over-use can lead it to become bane.

There is a need of global cooperation, regulation to allow science as a vehicle for benefit of humanity and not for its harm. As an individual we need to ensure scientific culture promoting its positive utilisation and helping the capable to achieve the same.



**FEEDBACK**

How to have right mindset

Impossible

Without Ambition

and Initiative  
Small Task unmet

Optimistic, enthusiastic  
Hardwork, capability  
by what others say. Process

SPACE FOR ROUGH WORK

The only impossible journey is one  
you never begin

Parents: Great People,  
and school fear narrow,  
inferiority complex. Suggest  
in great achievement

Ambition and Initiative → Success

World/Nation: Collective welfare  
→ Scientific Temper

History  
→ Ambhi, Alexander  
Invasion: gave up

Indian freedom struggle  
until Gandhi / Swadishi

Sisodia / Wome in Sports

Win on away soil

Phogat Sisko: Wrestling

Nothing is Impossible

Copernicus

— Heliocentric Theory

Dasrath Manjhi: — Mountain → Road to Hospital

Politicals

Difficult area. Wealth, Influence, malpractice.  
Abraham Lincoln son of poor farmer despite  
repeated failure. Narendra Modi — Tea seller

Spirtuality

Dhruv: Austerity; Large Kingdom  
Hanuman: Legend to cross Lanka roof.  
Pandavas defeat Karna  
Jannam Empire

Science

Copernicus  
India foray into space sector: 2<sup>nd</sup> country — South Pole.  
Space X: Reusable Rockets  
Elon Musk: Entire wealth, gave up jobs

Sports

→ India success at 1983 world cup  
→ Michael Pheff → Mark Spitz Record  
Yuvraj Singh Cancer

Science applied is engine

of humanity

Applied Science

Transport → Economic growth  
Connectivity, Trade

Power → Machines, Light for study  
Basic amenities → Food, Fodder

Modelling and Interpretation  
AI. efficiency, redundant work. Education, Health.

Biology and Tech → Biotek  
Vaccines, Medicine Stem cell  
Covid Shield, Covaxin

Engine of Humanity

Chemical  
Electrical → Mechanical → Aeroplane, Train. Trade.  
Rescue from Afghanistan, Ukraine. Enables delivery  
of medicines, relief during disaster.

Radiation waves → Communication, Internet data arch  
and communication. Education, Telemedicine. Enabled

e-governance - DBT, Complaint, Dissemination of info.

Disaster Hazards

Environment Damage

Disaster Nuclear, chemical,  
Bio. Cyber - Buss, Reckless  
Porno, Attack

Radon  
Box ment AI : Complex

Ethical + Sustainability

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