	महत्त्वपूर्ण अनुदेश	Important Instructions
	उम्मीदवार को नीचे उल्लिखित निर्देश सावधानी से पढ़ लेना चाहिए। किसी भी निर्देश का उल्लंघन करने पर उम्मीदवार को मिलने वाले अंकों में कटौती, उम्मीदवारी रद्द, परवर्ती परीक्षाओं के लिये वर्जित करने इत्यादि के रूप में दंडित किया जा सकता है।	The candidate should read the under-mentioned instructions carefully. Violation of any of the following instructions may entail penalty in the form of deduction of marks, cancellation of candidature, debarment from further Examinations.
1.	(क) अपना अनुक्रमांक एवं अन्य विवरण केवल प्रश्न–सह–उत्तर (क्यू० सी० ए०) पुस्तिका में उम्मीदवार के लिये निर्धारित स्थान पर ही लिखें।	(a) Write your Roll Number and other details only in the space provided in the Question-cum-Answer (QCA) Booklet for the candidate.
2.	अपनी क्यू० सी० ए० पुस्तिका में कहीं भी प्रश्नों के वास्तविक उत्तर के अतिरिक्त कुछ न लिखें जैसे कि कोई कविता/दोहा, अभद्र या अपमानजनक अभिव्यक्ति इत्यादि और न ही कोई ऐसा चिह्न/निशान बनायें जिसका उत्तर से सम्बन्ध न हो।	Do not write in the QCA Booklet anything other than the actual answers of the questions such as couplet, obscene or abusive expression, etc., nor put any sign/mark having no relevance to the answers.
3.	परीक्षक को प्रत्यक्ष/अप्रत्यक्ष रूप से कोई भी प्रार्थना/धमकी भरी बातें न लिखें।	Do not make any direct/indirect appeal/ threat to the Examiner.
4.	उत्तर अस्पष्ट अथवा गंदी लिखावट में न लिखें। इस प्रकार के उत्तरों का मूल्यांकन नहीं भी किया जा सकता है।	Do not write answers in bad or illegible handwriting. Such answers may not be evaluated.
5.	उत्तर स्याही से ही लिखें। उत्तर लिखने के लिये पेंसिल का उपयोग न करें। हालांकि आरेख, चित्र इत्यादि बनाने के लिये पेंसिल का उपयोग किया जा सकता है।	Write answers in ink only. Do not use pencil for writing the answers. However, pencil may be used for drawing diagrams, sketches, etc.
6.	प्रवेश–पत्र में उल्लेख किये गये माध्यम के अलावा अन्य किसी माध्यम में उत्तर न लिखें। अधिकृत और अनधिकृत की मिली–जुली भाषा का भी उपयोग न करें।	Do not write answers in a medium other than the authorized medium in the Admission Certificate. Do not use mixed language, i.e., authorized and unauthorized media together, for writing answers.
7.	प्रश्नों के उत्तर ठीक उसके नीचे दिये गये निर्धारित स्थान पर ही लिखें। निर्धारित स्थान के अलावा किसी अन्य स्थान पर लिखे गये उत्तर का मूल्यांकन नहीं किया जाएगा।	Write answers at the specified spaces (right below the questions) only. Answers written elsewhere at unspecified spaces in the Booklet shall not be evaluated.
8.	यदि आप अपने किसी उत्तर को रद्द करना चाहते हैं, तो उसे पेन से काट दें तथा उस पर 'रद्द' लिख दें, अन्यथा उसका मूल्यांकन किया जा सकता है।	If you wish to cancel any work, draw your pen through it and write 'Cancelled' across it, otherwise it may be valued.

उम्मीदवारों को इस भाग में लिखना मना है। Candidates must not write on this margin

खण्ड–A / Section–A

Q.1 Reason has always existed, but not always in a reasonable form.
तर्क सदैव अस्तित्व में रहा है, परंतु हमेशा युक्तियुक्त रूप में नहीं।

Q.2 The opposite of poverty is not wealth.
गरीबी की विपरीत स्थिति केवल दौलत होना नहीं है।

Q.3 To forgive is to set a prisoner free and to discover that the prisoner was you.
क्षमा करने का अर्थ है अपने भीतर के एक कैदी को मुक्त करना और यह पता लगाना कि वो कैदी आप ही थे।

Q.4 A man who wants to lead the orchestra must turn his back on the crowd.
जो व्यक्ति ऑर्केस्ट्रा का नेतृत्व करना चाहता है उसे भीड़ से मुँह मोड़ लेना चाहिए।

Reason has always existed, but not always in a reasonable form.

What differentiates humans from other species? What has led to the success of our species in a short span of time in comparison to myriad others who existed for million of years with us and before us?

Evolutionary biologist pin this answer to our ability to 'reason', our cranial capacity which provides us

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the cognitive abilities to ask the 'why?' and answer the 'How?' of things. Thus 'reason' is what makes us humans'. But is that sufficient!

Another set of anthropologists like Yuval Noah Harari and philosophers have added that our ability to be 'reasonable', to justify our reasons on established parameters to be the re-factor which has made us not just 'humans' but also 'humane'.

In this write up, we will explore our ability to reason and its significance in our collective success. We will also ponder why alone reason is not sufficient and then we will dwell into the need of being reasonable.

उम्मीदवारों को इस भाग में लिखना मना है। Candidates must not write on this margin

Reason: I think therefore I am.

'Reason' comes from our ability to logically analyse the given problem set. It helps us understand the anatomy of the problem / the circumstances at hand.

Even before this our ability to reason is the quality which provides us with motivation as well as intent to act in a manner. It prompts us to act and that is why a ~~for~~ farmer plays his field, a soldier defends her country and an entrepreneur runs an enterprise.

Going beyond, our ability to reason helps us find solutions to the given problems. As discussed earlier,

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our reasoning abilities were primary in helping our species survive and succeed.

For ~~one~~ instance, we reasoned that to survive the attacks of wild animals, we must live in groups, we must ~~invent~~ discover control over 'fire'. Our reasoning ability helped us turn bare stones into tools and then weapons. And slowly but gradually, our ability to reason helped us climb the 'ladder of civilization' to reach to the present state of progress.

This existence of reason from the 'dawn of human civilisation' continued uninterrupted through time

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and thus we kept on building villages, cities, civilizations and empires. We kept on creating bridges and trains and space crafts. Our weapons became more and more sophisticated and their power of destruction kept on increasing. Today, we are at the juncture, where with a push of button, we can annhilate civilisation, all thanks to our reason!!

Wait, What?? Annhilate civilisations!! With our reason?? Is this not like saying 'I think, therefore I won't be'!!

Yes, it very much is. History is testament to the notion that

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often our ability to reason has foreshadowed our ability to be reasonable and this has led to disastrous consequences.

It was Hitler's reason, ~~which~~ that 'jews' were the main culprit due to which Germany lost the First World war. Hence he reasoned, that a 'holocaust' is what the solution will would be.

It was the colonialist's intellect that made them decide that the ~~East~~ 'coloured people' are not truly people and hence they reasoned to subject them to slavery. Similar was the mindset behind apartheid, behind

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the theory of 'white man's burden' which the British used as a reason to subjugate our freedom.

And not just history, even in contemporary times we see the myriad consequences of 'reason detached ~~from~~ being reasonable'.

Use of hate speeches to win elections, emission of greenhouse gases unabatedly to achieve desired growth, wilful evasion and avoidance of taxes by corporates to increase their profits are all examples of the same phenomenon. The impacts of the 'missing reasonableness' are becoming more and more prominent with divisive fractures in society, from global warming to

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global boiling and increased base erosion and money laundering.

After having a peek into the dark corners of 'reason without reasonableness', let us now try to understand the anatomy of being reasonable in our actions.

Reasonableness: the cardinal virtue to guide reason

Reasonableness can be defined as soundness of judgment. It involves being fair, justifying our actions, our reasons on a set of established principles. Thus 'reasonableness' is highly rooted in ethics and values, and lets start our analysis from this point.

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Having the right values and measuring our reason on established ethical principles is the beginning point of being reasonable.

At individual level, the individual moral compass, the court of conscience is what instills reasonableness in our reasoning. In sports, when there has been an increasing trend of 'doping' to enhance performance, sportsperson like Sachin Tendulkar, Roger Federer have led the way with unblemished medical records.

In civil services, there are increasing trends of corruption and amassing of wealth. In these times, U Sagayam, paid heed to his conscience and

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declared publically all his assets wilfully.

Reasonableness has a specific significance in various domains of governance. Honourable Supreme Court has ruled famously in the Maneka Case that all the legislative and executive action must go through test of 'due process' i.e reasonableness.

Our constitution itself provides for reasonable diffirentia in the form of 'equal protection of laws' to guide the reason of equality. It is this reasonableness, that guides the state that along with political democracy, we must strive for a social and economic democracy so that we can

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iron out inequalities and uplift the vulnerable section of population.

Apart from values, reasonableness in our actions must also come from practical considerations, i.e reason itself. Recently UN secretary general said we are moving from global warming towards global boiling with increased propensity of disasters. While reason dictates that we must take mitigative steps, reasonableness dictates that we must follow principles of environmental justice.

Another way of bringing reasonableness in our actions is through creating a culture of debates and discussions as emphasized by Dr Amartya sen in his book 'Argumentative Indian'.

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Reason weds Reasonableness : A Happy ending

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We have seen that the ability to reason, aquired and developed by gradual evolution has helped us survive and succeed. We have also seen that although, with all its benifits, reason divorced from reasonableness has led to disasterous consequences, not just for individuals, but socities, nations and whole globe. Lastly, we deciphered the significance of reasonableness and how to bring that quality in our actions and reasons. It is said that 'life is a journey from being human to being humane. Reason may make us human, but it will be our ability to be reasonable which will make us humane.

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खण्ड–B / Section-B

Q.5 International Trade is a good indicator of National Security.
अंतर्राष्ट्रीय व्यापार राष्ट्रीय सुरक्षा का एक अच्छा सूचक है।

Q.6 It is not that we use technology, we live technology.
ऐसा नहीं है कि हम प्रौद्योगिकी का उपयोग करते हैं, हम प्रौद्योगिकी को जीते हैं।

Q.7 There is more to life than simply increasing its speed.
जीवन में केवल अपनी गति बढ़ाने के अलावा और भी बहुत कुछ है।

Q.8 Nature is neither a servant nor a master, but a necessary partner.
प्रकृति न तो सेवक है और न ही स्वामी, बल्कि एक आवश्यक सहभागी है।

It's not that we use technology, we live technology.

Us humans have always looked at life from the perspective of attaining pleasure – materialistic or spiritual or at times both. We have often used the social ~~on~~, biological or physical objects around us to serve our purpose of attaining pleasure. Technology, be it fire, wheel or IT, has been one such tool.

But initially slowly, and now at an unprecedented pace, we are moving

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into a domain where rather than using technology as a tool, we have made it an indivisible part of life, turning it into an experience, so much so that we have started living it.

How did we cross the thin line of 'using technology' to 'living technology? What are its implications for our lives as individuals and communities? And is there another thin line of that separates 'us using technology' from 'technology using us'? These are some of the pertinent questions.

From using technology to living technology

Technology has been one of the most potent weapon of our arsenal, the

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most versatile and valuable tool of our toolbox, which has helped us as 'a species' not just survive, but also surpass other species to emerge as the most successful one. From crafting stone tools to dig and hunt in prehistoric times, to learning to farm and grow crops, we used technology to become civilised.

Gradually over time, technological developments assisted every dimension of our lives by easing our travels, improving our healths, enhancing our foods and assisting us achieve economic prosperity. Certainly, technology proved its worth as an invaluable assistant, but with it getting more intertwined with every aspect of our life, it started becoming a life partner too.

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As a life partner, technology has accompanied us through our thicks and thins, in every walk of life. You are sad, you resort to your phone and turn on a funny video. You feel lonely you make video calls to your loved ones. You are happy and want to celebrate, just click a few buttons and you will be served with choicest of desserts. But soon, technology started overtaking more of our senses, and soon it started becoming not just a part of life, but <u>life itself</u> !! Lets see how?

Consider social media. One uploads a picture taken on a vacation after applying several filters to make oneself 'attractive', sadly to some 'acceptable'. Then one waits to get more likes and hearts and comments and this gives one a dopamine rush. Technology, which was supposed to be a tool for your happiness, suddenly became your happiness. Now we are in an age where people want to go on vacations for the sole purpose of getting more content for their social media handles. To conclude, technology which was supposed to aid our purpose, actually became <u>our purpose</u> in life.

In other dimensions too, we have started living technology. The food that we eat, has gone through various technological modifications, such as food fortification, engineered proteins to enhance your gym performance and even lab modified food to enhance flavours. We are effectively eating technology.

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Likewise, amidst the severe smog in Delhi, oxygen cafes became popular. Here you could breath a technological product, pure oxygenated air. Thus breathing, an essential part of your lives has been technologically modified too.

There is a saying, "I think, therefore I am." Our cognition abilities, our conciousness is one of the primary parameters using which we can say we are alive. ~~Last ye~~ This year, we had a revolutionary breakthrough in the form of ChatGPT, an open AI software which could think like a human, and answer all our queries. Now, we don't need to think, our 'need to think', the basis of our conciousness has been technologically outsourced too.

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Lastly, this notion of living technology is even more prominently visible in the domain of a 'metaverse'. An artificial, augmented, virtually enhanced cyber world, where one can live a parallel life. One can have a 'life' of one's dream, with whatever materialistic luxuries one dreams of. Presently, this idea seems to be the epitome of living technology.

Living technology: Implications

This era of living technology has brought in several benefits to our species as a whole as well as in our individual lives.

For the disabled, cybernotics and artifical ~~tib~~ limbs have proven to

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be a life changer. Similarly pacemakers have made it easy for those with heart conditions to live a ~~xxx~~ normal life. Now we are even moving into the domain of artificial organs, xenobiotics, stem cell research whereby living technology will make us healthier and happier.

Similarly fortified foods have helped us fight malnutrition, virtual education has helped us bridge the learning gaps, and Artificial intelligence has made complex computations easier to solve opening up new dimensions of progress for us. But this has not been without repercussions.

~~Eon~~ Albert Einstein famously said, "I fear the day when technology

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will overcome the need for human interaction! With social media, isolation, depression, mental health issues, need for instant gratification, comparison fatigue etc are becoming a sad reality.

It is said that technology is a good servant, but may be a poor master. With a superintelligent, self conscious AI seeming not so much a distant reality, fears of machines dominating humans, the scary premise of ~~the~~ science fictions like 'Matrix' and 'Terminator' do not seem completely impossible. Adding to that are the concerns of job losses when we will be living the techworld of AI dominated production.

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Similarly, with us living technology concerns of privacy violations, mass surveillance, ~~song~~ cognitive capturing phishing, snooping, ~~ma~~ customer manip-ulations are all becoming more and more real. ~~Eto~~ To some, this has even been seen as us not using technology as product, rather us becoming the products.

Living technology : the right way

As has been seen, the negative implications of ~~living~~ unmindful living technology can be disasterous, but a mindful concious living technology can actually enhance our lives.

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To find the golden mean, we need to take some pre-emptive steps.

First and foremost, we need to make sure that while living technology, we have firm control over it rather than it controlling us. This can be ensured through the perfect merger of science with humanity and ethics.

Ethical frameworks need to be brought in for all the revolutionary technologies such as AI ethics, Biotech ethics etc. They must be based on principles of inclusivity, humanity, equality and equity.

Secondly, legal and policy frameworks must be drafted to rein in violations such as the data privacy law.

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Thirdly, we as humans must realise that its our value system which is the ultimate source of a good or bad technological life. Hence we must reform ourselves to become virtuous.

A technological life is not just the present day reality but also that of the coming times. It has immense potential to solve our problems in almost all dimensions of life. But an unmindful way of living technology can breed many new problems too. Through out our history, we have used technology as a tool, sometimes for good sometimes for evil. Now, in this era of living technology, we must take utmost *** care to build a peaceful future.

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Its not that we use technology

We technology

① tool

live

Space for Rough Work

can't imagine

① experience modifies
② enhances our life
③ every dimension
s e p e
④ Beyond → VR, AR
→ AI
→ cybernetics

natural engineering
purpose social media metaverse

Body

1. From using to living → evolution
→ dimensions

ICT e-comm mobiles nanobots
Bio, pharma space Robots designer babies

2. Tech using us, living through us. thin line

3. Good servant, bad master { guided missile, misguided missile, value neutral, world war III }
maybe future ~~past~~ present

4. We need → AI ethics
→ Bio tech ethics

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