

Roll No. \_\_\_\_\_

Time Allowed: 3 Hrs.

Max. Marks: 250

### Instructions to Candidate

- Both sections are compulsory.
- Attempt one essay from each section.
- Each essay carries 125 marks.
- Write each essay in about 1000-1200 words.
- After finishing the first essay, attempt the next on a fresh Page.
- Any page left blank in the answer-book must be crossed out clearly.

**(Examiner will pay special attention to the candidate's grasp of his/her material, its relevance to the subject chosen, and to his/her ability to think constructively and to present his/her ideas concisely, logically and effectively).**

58+58  
Manj

Name Kr Satya Dharma Pratap

Mobile No. \_\_\_\_\_

Date \_\_\_\_\_

Signature *[Signature]*

1. Invigilator Signature *[Signature]*

2. Invigilator Signature \_\_\_\_\_

### Remarks

*Satya,  
discuss this copy  
with me.  
Manj.*

## SECTION - A

1. *A sporting society is always mightier and happier than those which are not.*
2. *The ultimate freedom comprises self-awareness, conscience, independent will and creative imagination.*
3. *The end doesn't justify the means.*
4. *To be beautiful, life does not require to be big.*

## SECTION - B

1. *The migration streams reflected progress in the past, they represent distress in the present.*
2. *Corruption has become a national culture in India.*
3. *Industry 4.0 is the biggest game changer of present and future.*
4. *Laws catch flies but let hornets go free.*

The end doesn't justify the means

USSR, the state which was formed through armed revolution against Czar and adopted dictatorial style of rule. It didn't last for long time and finally lead to disintegration of USSR and Russia was born with many small states. India which won freedom from its colonial masters through non-violent Satyagraha under leadership of Gandhi and adopted democracy and inclusiveness in its rule. India is beacon of peace and inspiration to many countries for its principle of "Unity in Diversity".

From above it can clearly inferred that becoming independent, successful is important but the means are also important. In this essay we will analyse the importance of means to achieve ends in different realms like historically, politically, economically, environmentally etc. We also look in to how many institutions evolved and to justify the means and India's unique way to adopt this principle.

Starting from Indian point of view, we achieved freedom from British through non-violence. Gandhi's led from the front through various struggles like

Remarks



Non-cooperation movement, Civil disobedience movement and Quit India movement. He clearly distanced himself from Violence way to achieve freedom and Fascist forces. It is for the same reason he stopped Non cooperation movement due to Chauri Chauri incident which led to burning of Police station.

Gandhi is inspiration to many freedom struggles and movements. He continues to inspire even now. He inspired Nelson Mandela to fight against Apartheid and Martin Luther King Jr to fight against discrimination of blacks in USA. The Current movements like Sahyagraha for doctors by Anna Hazare and many walkathons for Minimum Support Price to farmers are inspired by Gandhian ways.

India which became Independent adopted democracy and socialism for political and economic justice. Universal adult franchise to make everyone part of democratic process. Democracy itself is a innovation of human being for administration. Welfare is ultimate goal of all states but government elected by people give them true legitimacy than divine or desecd monarchy.

Remarks

- Don't use euphemisms are one aspect
- better if you discuss essence / Meaning of Ideas & END. & then more further.

Final part

Similarly, we adopted Socialism for inclusive growth. It is different from Russian Socialism and we evolved with democratic Socialism & Prudhom Socialism. Even though development and growth is necessary for nation at the same time inclusive ness is also important. Hence, we adopted planning, balanced regional development to make development more inclusive.

Additionally, to this, to make society more inclusive we adopted 'Positive discrimination' through reservation systems to provide opportunities to all sections of Society. The marginalised sections like Scheduled Caste, Scheduled Tribes are given with reservation to empower them Society, economically and politically. Fundamental rights like Article 14, Article 15, Article 330, Article 332 provides these reservations.

In extension to above reservation policy and democracy, Panchayats institutions are established for democratic decentralisation. The ground India according to Gandhi is base for our country. In the same Panchayati raj institutions we provided 33% reservations to women to empower the women politically, Society etc.

India has unique way of honouring women in society. They were worshipped Goddess of health, education, Power etc. India is also proud of many politicians like Indira Gandhi the first female of Prime minister of India which ever oldest democracy <sup>America</sup> never got <sup>woman</sup> Political head. Pratibha Patil, woman President, Nirmala Sitharaman became Defence, Finance minister which considered ministry of men. This proves true inclusiveness of our beautiful democracy.

In addition to this, economically profit motive is always leading in business. The companies compete and some times follow unethical and immoral ways to stay in competition. However, the motive of profit is good but it should be ethical way. Corporate Governance, Corporate Social Responsibility are various policies, guidelines to guide ethical way of making business. The TATA group is grown into brand due to its ethical values, principles, and philanthropic activities. It is perfect example for ethical business.



Extending further in business sphere, if we take corrections in current times become huge challenge. Media, which acts as fourth pillar in democracy, itself now bothering with fake news. In the era of breaking news, it is leading to faking news with misinformation and disinformation. The delivery of news is important but it should be impartial balanced way. It is struggling with corporate-media nexus and corruption.

Having discussed about economically, now we will discuss the importance of man in environmental sphere. The world has endowed with diverse species, forest, desert, minerals etc. The human being exploited these forest, minerals for industrial growth. The reckless exploitation led to global warming and climate change. The erratic rainfalls and extreme weather conditions are testimony of it. The recent, heatwave in Europe, ozone layer depletion present grim picture of climate change. Hence, international community came up with 'Rio earth Summit' and 'Sustainable development goals' and Paris climate deal for mitigating climate change and sustainable development.

Remarks

India is leading from front in fight against climate change by adopting 'National Action Plan for climate change', 'International Solar Alliance' and 'NITI Aayog Plan for Sustainable development'.

India is working not only in climate change but also for trade and international peace. The world community which formed World Trade Organisation for Rule based trade and United Nations for Rule based international order. The global community faced the challenges of wars, genocides <sup>by many countries</sup> to achieve their political goals. Now General Assembly, Security Council are there for sanctioning to 'Right to protect' any country to reduce arbitrariness.

In similar way, in India also we follow rule of law and uphold Constitution for public welfare. Even though public welfare is paramount some times it may take extreme form like 'Emergency' in 1970's. Hence, sufficient balance in form of judiciary and legislature is present to uphold the Constitution and



to safeguard fundamental rights and civic liberties.

From the above discussion, we can see that even though achievement of end, goals are important but the ways of achieving is <sup>more</sup> important. Deontology which speaks about "the means justifies ends". According to Immanuel Kant who proposed "Categorical imperative" which talks about the particular action should be done in moral way to achieve ends without thinking about consequences. The "notion of duty" and actions which puts the moral worth on the action.

Similarly, In Mahabharata, Sri Krishna also told Arjuna for performing duty is supreme. His "Karma Siddhanta", the person should <sup>perform</sup> his duty / action without thinking about result and again, in ethical way.

Further, India being democratic and diverse country undertook important initiatives for public welfare. Right to Education for education of children, Ayushman Bharat for poor sections of society. In the similar way,

Mid day meals scheme, National Food Security Act and Mahatma Gandhi Rural Employment Generation Program for inclusive and sustainable growth. The digital India initiative for digital governance, Bharatnet for connecting all the rural panchayats, Digital Saksharata Program for digital education are steps in right direction of digital world. Thus all initiatives ensure Sabka Saath Sabka Vikas.

They also improve transparency in governance, encourage accountability, non-partisanship, objectivity and empathy among the public officials to deliver the public services. The Right to Information Act, Whistle Blower Protection Act, Lok Pal, Citizen Charter are various means to ensure the governance and strengthen the governance.

Hence, Government should take all the sections of society in confidence and encourage international cooperation for inclusive and sustainable development.

The above approach would make this world, the better place to live with equal opportunities.

Finally, it "is not only important to do a right thing to a right person at right time to right extent most important is in right way"

- Satya. 1. your understanding is good.  
 2. Good clarity & expression.  
 3. But ordering is not ~~good~~ effective and also overemphasis on certain aspects.

4. This topic is all about mean-end relation but do you agree with the topic.

↓  
 so more step-by-step i.e.

- (a) Mean & end Relationship - good debate.
- (b) why more emphasis on end. If so what are the consequences when it can be justified. (example).
- (c) ~~Mean - End~~ Mean - Purpose. (Gandhi, rules etc).
- (d) How to keep balance / examples.

Let your essay answer logically.

(58)



Industry 4.0 is biggest gamechanger of Present & Future.

A person who wakes up in the morning with digital alarm and gets ready for daily work. The digital tablet prepares ~~the~~ schedule based on commitments. The humanoid prepares breakfast based on health status and Calory intake. The humanoid communicates with driverless car for drive to office. The road is without any traffic personnel and reaches office for official work. The above situation may sound like science fiction movie but may turn from to reality in near future with help of Industry 4.0.

In this essay, we will define industry 4.0, how other industrial revolutions were evolved and this is different from them. We will also discuss its impact on various sectors and ethical issues involved in it. The challenges faced by industry for its implementation and best way forward.

Industry 4.0 according to World Economic Forum, it is integration of Physical, biological and digital world of a person. The technologies integrates the above three aspects to make up a new technology to serve the human in the best possible way.

Starting with evolution of human, the human being used his/her Cognitive Capacities to invent the discover the most beautiful things in the world. The Primitive human invented fire to cook raw food and later invented wheel which made humans work comfortable and easy.

The human never looked back in the technological development and biggest break through is 'Industrial Revolution' or Industry 1.0. It is based on generation of power with steam engines to move vehicles with engines. Then came Second Industrial revolution (Industry 2.0) with generation of electricity which made the production of materials in massive scale. The difference between first two industrial revolutions is more than 150 years.

The third industrial revolution (Industry 3.0) can be termed as digital revolution with invention of computers. The time between second and third industrial revolution is less than a century. The fourth industrial revolution is however extension of digital revolution with integration of many technologies. It is evolving so fast compared to other industrial revolutions and we are witnessing, will witness beyond our imagination.

The key input to this industrial revolution is data. It is correctly termed as "Data is new oil". The countries, companies which generate, process and deliver the data are new rulers of this century. There is already immense competition among the countries to control the data with different rules and regulations. India's "Data localization" policy, France's "General Protection of Data Rules" are various programs to control the data in territory and safeguard it.



Data privacy is important issue in digital world where the data flows across the borders. The recent 'Cambridge Analytica', Facebook Controversy for affecting the political behaviours of citizens raked up controversy about data privacy. Data protection rules are imperative for safeguarding the privacy and rights of citizens.

Starting with benefits of Industry 4.0, it helps to identify the disease patterns with help of artificial intelligence. The artificial intelligence is ability of machine to mimic the human intelligence with the help of algorithms. Recently, AI based algorithms predicted Cancer diagnosis in less time compared to doctors. In, Chandigarh, a doctor conducted telebotanic surgery with 30 km away from the patient. The human genome project which gives information about genetic constitution helps us to predict genetic, health disorders in individuals and help in prevention, curable gene. The human being is in the process of challenging the national security opened by nature.

Remarks

Similarly, in agriculture the machine helps us to predict weather patterns in climate change era and provide required information for precision agriculture. It helps us to move away from traditional crops to market led agriculture and reduce the dependence on nature. It helps Indian farmers the "dream of doubling the growth of farm income"

Similarly, in education it helps to revolutionise the pedagogy with tele education and digital education. The teacher, absenteeism and geographical barriers may be overcome with presence of humanoids as teachers and tele education. It makes education more accessible and equitable to provide equal opportunities to all.

Furthermore, it helps us to imagine the unimaginable things through Virtual reality and augmented Reality. The traditional way of thinking and understanding things makes dramatic shift using above technologies. It leads to better understanding of things and experiencing of things.

Remarks

The other most important application of it is in disaster management. The humanoid controlled by human help to fight the disaster through rescuing the person during Calamities. At the same time, it also helps to predict the climatic patterns and its changes and affect on disasters.

Additionally, it also transforms the transport and communications in massive way. Driverless cars already made and tested in limited conditions in western countries. They may soon hit the roads. Along with automated robot like humanoids started serving in traffic management in trial basis in Hyderabad.

The artificial neural systems with machine and deep learning started predicting human behaviours through our preferences. Amazon Alexa, Google Siri and many chat bots are already in existing serving the needs of human beings. They may revolutionise the service industry.



However, for all above things to happen and affordable the technology must be made cheaper and further trials are needed. 5G technology which currently undergoing is important driver of industry. It already started technological war between China and America. Along with it, other important technologies are Internet of Things (IoT), Big data analytics, Cloud computing, Artificial Intelligence and machine learning. Along with them neural networks genetic engineering are also important.

However, there are many challenges in adoption of new technologies with Industry 4.0. The most important thing is reemployment, according to McKinsey report automation lead to 80 million jobs loss in 10 years. Scientists like Stephen Hawking, Elon Musk warned against ill effects of Artificial Intelligence. But there are supporters like Bill Gates, Mark Zuckerberg etc.

In addition to above challenges, there are ethical challenges like accountability of individuals for

the accidents of cars and mistakes of humanoid's .  
 The developer of algorithms or manufacturers would be  
 charged for offence? The machine would be equal to  
 man? What about empathy and compassion?

The industry, governments should come up with  
 robust data protection policies to secure the human rights.  
 The laws should be made to fix the accountability for  
 any errors. The reskilling and upskilling of existing  
 workforce and train in new emerging professions due to  
 technology. The technologies should be inclusive without  
discrimination against race, communities etc.

Technology are generally disruptive and  
 we have seen in the past also. But, this industrial revolution  
 is so fastly emerging to encompass all the realms. We should  
be ready to accept the challenges to face them. Adapting  
 to new technologies is always done and ready to tackle  
 them. After all, we human beings are creators of  
these technologies and master these technologies but not  
 slaves to these technology.

Remarks

(58)

ALMOST  
 same issues  
 discuss with  
 me

*Remarks*



Remarks

*Remarks*

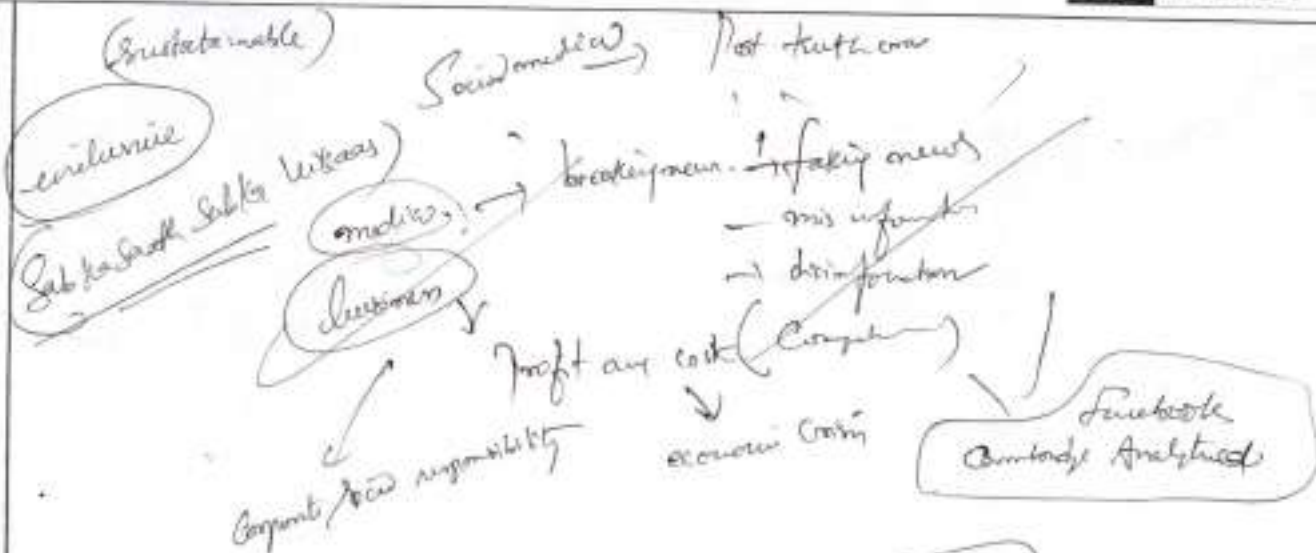




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*Remarks*

Remarks



technology

doing in official world →

Creativity / Innovation

- family
- family
- marriage
- religion
- Economic descent

Education

RTE

Health

NRLM

Disability India

Disability

Gender →

Nelson Mandela

Masha Kather King Jh

Inclusive India

Social

Economic reforms

Political Justice  
Universalized franchise  
Right to upper class

Reservation  
Adivasi  
Opposition

Social Security

Women

Nation  
Food Security Act  
MGNREGA

SC/ST  
Dnyanesh

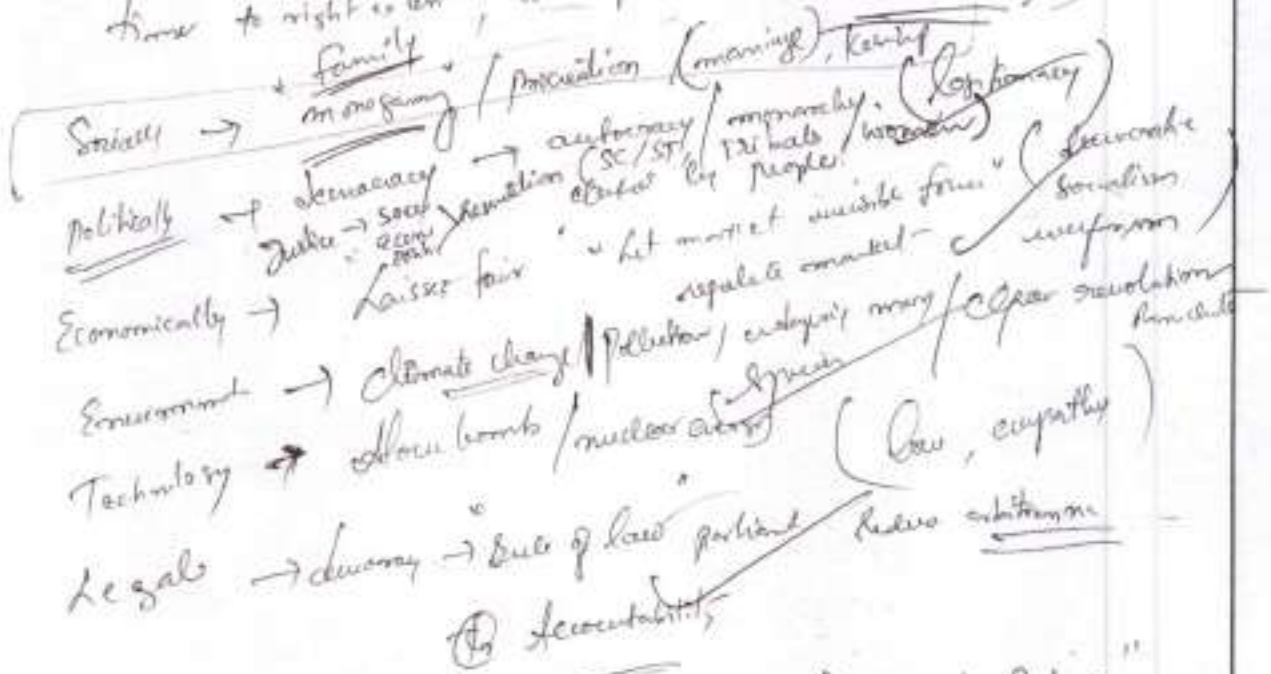
UPE

Remarks



अधिक	उचित	Ultimately Absolutely T "fact" <u>"motive of duty"</u>
अधिक	Conveniently	
अधिक	Conveniently	
अधिक	Adaptively	
अधिक	However	
अधिक	Nevertheless	

The end doesn't justify means  
 it is said  
 this is to do right thing to a right person at right  
 time to right extent, most important in right way



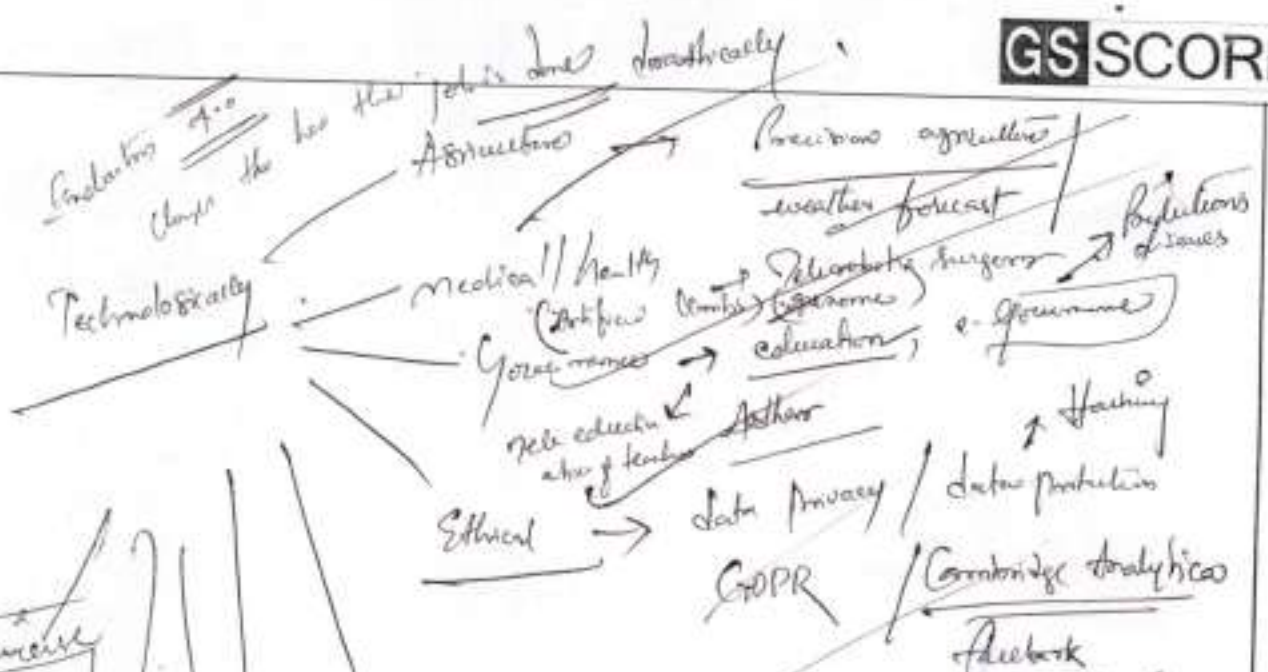
Environmental relation → market value → market to market

Running fluctuations  
 Justice inequalities;  
 poor rich / divorce  
 Justice / land

WTO → accumulated emission  
rule based order

Enrichment → Karma yojana / captured / acting in right way / ethic

Responsibility, responsibility, equity, harmony  
fundament, money, trust / Mar 11 / social animal



Lincoln  
 Mars  
 Moon



→ Robots in warfare / data / ~~agent~~ / ~~intelligence~~

→ Deep sea exploration

→ Mining, family / ~~aging~~ / ~~elderly~~ / ~~separating~~ / ~~unkilling~~

data is new oil

data localization

e-commerce

→ discrimination

data is new oil

→ Taxation / ~~algorithm~~ / ~~accountable~~ for accidents

Remarks

Celebration / Cyber hacking

Apple: Siri  
Google  
"Amazon Alexa"  
"Speech recognition"

Ethics / Accidents / algorithms

- Artificial Intelligence
- Machine Intelligence
- Big data / Data analytic
- Internet of Things
- Automation
- Cloud Computing



unemployment  
→ facing the Robots

Stephen Hawking

Data Sensors

Robo machines

- Quantum Computing
- Virtual Reality
- Augmented Reality

Probability / Virtual / Physical  
 Monte Carlo

Sound Security  
 Compete, Comparison  
 Care  
 Economy



*Remarks*