Amara Malik

377

Current Affairs

Q.NO.1

In the 20th century and before the maximum of power was determined by economy and military muscles. But in 21st century, technology has evolved into another determinant.

Introduction:

Great power politics is very dynamic. Till 20th century, it was economy and military muscles that decided the global hierarchy.

Havever, the 21st centur has ushered in a new era, where technological prowess has emerged as a decisive factor in determining the nation's influence and standing on the world stage. The seismic shift has re-defined the rules of International relations, economic competitiveness, and geopolitical dynamic.

As one navigates this new landscape, its

essential to understand how technology and maintainir has become third pillar of global power, regions. 20th Cont.

Economic power and Military muscles as a determinant

of Maximization of

Power:

In the 20 th century

Table: Economic and Military muscles aided Espe to					
Era 1	Economic	Military	Out come		
Period	Muscle	Muscle			
Ewopean	Exploited	• Advanced	· European powers		
Colonialism	Colonies for	militanies	like Britain,		
	resources	and powerful	France and Spain		
	(e-9; gold, spices)	navies.	established vast		
13	· Dominated	· Conquered	empires, dimirating		
	global trade	and contalled	global commerce		
	routes and	ast territorie	and politics.		
	Market.	· Military			
	· Industrializ-	-force supressed			
	-ation erabled	nesistance			
	mass production	and secured			
	and economic	colonies			
	dominance.	· Arms race			
		among			
		. Fropean	1		
		powers for			
		global domin-			
		-ance.			

Eral	Economic	Military	Outcome
Period	Muscle	Muscle	
	· · · · · · · · · · · · · · · · · · ·	/ - s [*] /*	
US vs	· Us became	· Global	• The Us
Soveit	the largest	ourns race	and Boveit
·Unión	economy by	with vast	Union
(wld	early 20th	nudear	emerged as
war	century.	ore nous.	superpowers,
Era)	· US outpose	· Us built a	with economic
	Soveit Union	global network	and military
	in economic	of aucances	rivally shapin
	growth and	(NATO).	global geopolit
	technological	· Us ouispent	Soveit
	innovation	the Soveit	Punomi'c
	· Soveit	עיו מסיומען	strain led
	economy	mulitary adv-	to its collap
	Struggled	-ancemercs	ending the
	under	during the	cold wan.
	centralized	1980s.	9
	planning		
	and militar	1	
	expenditues		

Fig: US dominated in cold war due to strong economy and

militery mysdes.

Ega!	Economic	Military	Outcome
Period	Muscles	Muscles	,
			•
US as	· Us solidified	• Unmaiched	• The us
the	economic	military	emerged as
world's	dominance	copabilities	the sole superpo
Superform	post - NINI II,	with the most	-wer post
	~ 1 0 1	advanced	Cold-war,
1	· ·	nuclear arsenal	shaping a
	institutions and		new world
1	trade systems.	military presen	order and
	 Technological 	-ce.	maintaining
	inopyation	· Us military	global stabilite
	and global	intervention	through its
	trade networks	and ortionces	Strong economy
	expanded	nonforced global	and military
	influence.	Leadership.	muscles.
		s gri	

States due to strong economy

Keep the description in this part of the answer a bit brief

Technology evolved into another determinant in 21st century:

Advances in Science and technology (Sand) have influenced the course of international politics. Technology, in-fact, is one of the key determinants in shaping relations among nations, along vie was and expressionic shifts. Technologically advanced industrialized nations accumulate and execuse their vast economic and military powers in order to establish their supremacy over less advanced pairs of the world, in effect creating a hierarchy among nations. More over, by making was more destructive, technology has made war unreliable means of conducting great power relations, thereby fostering corpe aion among states. Adding to this, it has also accelerated competition among

The role of Information and Communication technologies (ICT) in Global Relation:

Information and communication technologies have significantly impacted the dynamics of

International relations. Charles Meiss identifies four main mechanisms through which ICI has influenced global politics; 1. Changing the 2. Transforming architecture of International processes International System. c.e., diplomacy, trade, etc. 4. Altering security 3. Creating new issue areas. Fig: Four ICT influenced global politics.

Rapid globalization of technology has transformed international relations:

Rapid globalization of technology has ...

transformed international relations, creating

both opportunities and challenges. The

"revolution in dual-use technologies? has

fundamentally attend tow weath and power

are generated and now wars are fought.

Technological diffusion is in now almost

instanteneous and unstappable, which has

equalized some aspects of power but also

introduced new vurnerabilities.

Example:

The proliferation of commercial satellites, GPs, and internet data has military applications, leveling the playing field for nations that may not have been: traditional powers. However, it has also empowered mon-state actors, such as, terrorist groups, to exploit these technologies for asymmetrical warfare.

- future power shifts:

Advancements in n'ext generation technologies Like;

(1) Micro electronics

(2) Biotechnology

(3) Robotics

(4) Artific a Intelligence LAI)

(5) Silicon chips

balances and shape future military capabilities.
By 2030, several states will have developed

formidable military apabilities, including

long-range, prease, and destructive weaponry,

leading to a tranformation in how was

are fought.

Example:

China's focus in upgrading its military with high-tech commend-and-control systems, cyber capabilities, and space technologies is an effort to gain strategic supreority. Chinese military strategics emphasize controlling information over traditional warfare methods, viewing cyber warfare as more effective than

nuclear weapons.

The US-China Chipwan: A Technological Arms Race:

The ongoing US-china Chip was epitomizes the broader struggle for technological supremacy between these two global powers.

Semi-conductors, or chips, are the foundation of modern electronics, possering everything from smartphones to duanced military systems. Control over chip technology as seen as critical to national security, economic power and geopolitical influence.

Background of Chip War:

The chipwar began with the US imposing restrictions on China's access to advanced semi-conductor technology, citing national security concerns. The US has since intensified its efforts to curb Chinas rise as a technological power by restricting exports of cuitical technologies, pressuring allies to follow suit, and eacouraging domestic chip production.

its efforts to build a selfsufficient semi-conductor maustry:

In response, China has accelerated its efforts to bould a self-sufficient semi-conductor industry. The Chinese government has invested billions of dollars in;

(1) Rand D (Research and Development),

(2) Subsilies

(3) talent recruitment

to reduce its reliance on foreign technology and achieve chip independence.

Far-reaching global implications:

The US-china chip was has far reaching global implications for;

(1) global supply chairs,

(2) technological innovation,

(3) International relations.

It has led to decoupling of globaltech ecosystems, with nations being forced
to choose sides. This rivalry could potentially
lead to bi-furated global tech landscape,
with separate standards, supply chains, and markets

Technological superiority allows nations to set global norms

There is a direct correlation between a mation's technological capabilities and its place in the global hierarchy. Technological superiority allows nations to it International morms and maintain that status as great powers. This competition is particularly fierce among relating strategists, who view technological advances as cuicial to staying a head of rivals.

Example:

The Us's restrictions on high-tech transfers to China and India reflect the strategic importance of maintaining technological superiority. Both Chino and India have recognized this and are investing heavily in immovation and RAD to close the gap, with China aiming to become global leader in technology.

Techno-Resource Nationalism and Global Power Play:

The intersection of technology and resource Competition has given rise to what can be termed "Techno-Resource Nationalism? Great powers are in constant competition for resources, and technology plays a entral role in securing these resources and maintaining power. Historically, international orders have been based on energy resources, and the current era is no different, with oil and technology being key drivers of foreign policy.

Example:

technology to redraw the map of Euasian, creating an alternative hub and spoke economic system, exemplifies techno-resource mationalism. By bulling pipe lines, rail roads, and highways linking China with Central, South west, and South East Asia, China secures raw materials and energy resources while exporting its manufactured goods, thus consolidating its power.

Keep the description of headings a bit brief

Future technological innovations will decide the fate of nations:

Fuine technological advancements will certainly decide the fair of nations. Emerging economies, like China, have the potential to develop revolutionary technologies that could rebarance global pours. However, the pace of technological change is uneven, and nations that can leverage their technological edge will dominate the global power.

Example:

The rapid growth of R&D in Chima, combined with its large demestic markets, positions it as potential source of future technological blackthroughs, such as in clean energy and advanced computing. As, China's R&D investment exceeded 1 trillion yuan in 2012 and 2 trillion yuan in 2019, and it took only 3 years to rause it to 3 trillion yuan in 2022, reflecting China's inmovation driven development strategy. Thus, these inmovations could shift global power balances.

Conclusion:

In the 21st century, technology will continue to plan a pivotal role in shaping international relation. Geopolitical alliances and rivalries will increasingly revolve around technological advancement resources and trade. Access to cuting edge will determine a nation's place in the global hierarchy, and technological immovation will be the engine driving economic and military power. And the Us-China chip war is just one battle in this broader conflict, illustrating the stakes involved in the race for technological dominance.

Good attempt!

But the answer is lengthy and will affect your time management in paper. So shorten it a bit