

Chapter 3: Modern World and Digitalization

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The image is a collage of four promotional banners and a textbook cover. The top left banner is purple with 'Class 9 English' in yellow. The top right banner is blue with 'All 12 Chapters' in white. The middle left banner is dark red with 'All Lectures Playlist' in white. The bottom left banner is purple with 'Full Book' in white. To the right of these banners is the 'FEDERAL BOARD Model Textbook of English' for Class 9. The textbook cover features a girl in a pink shirt and a boy in a maroon suit.

1. Define globalization with reference to business and economic development around the world.

Ans. Globalization refers to the process through which ideas, knowledge, information, goods, and services spread across the world. In a business and economic context, it is the integration of economies, enabling free trade, the free flow of capital between nations, and easy access to foreign resources such as labor markets. It maximizes economic returns for businesses by opening up new markets and lowering production costs through access to global supply chains.

2. How do you think globalization has influenced the world?

Ans. Globalization has profoundly reshaped the world by fostering **economic interdependence** through increased trade and investment, though this also creates national dependencies. It has driven **cultural exchange**, exposing people to diverse traditions while potentially diluting unique cultural identities. The accelerated spread of **technological advancements** has led to rapid global development, and increased interconnectedness has encouraged greater **political cooperation** on international challenges like climate change and public health.

3. Shed some light on the positive role played by the media in accelerating the process of globalization.

Ans. Media has been a crucial catalyst for globalization by rapidly disseminating news, information, and cultural content across borders. The advent of digital platforms like the internet, social media, and satellite television has created a global audience, instantly connecting people worldwide. This rapid exchange of ideas and cultures promotes mutual understanding, encourages political collaboration, and significantly increases global awareness of Pakistani products and talent.

4. What challenges and risks does digital globalization pose to cybersecurity and data

privacy in Pakistan?

Ans. Digital globalization in Pakistan poses challenges to cybersecurity and data privacy due to increased cyber threats, such as hacking, phishing, and ransomware attacks. As more people and businesses go online, they face risks of data breaches and financial fraud, especially with limited cybersecurity awareness and infrastructure. Additionally, weak regulatory frameworks make it harder to protect personal data, leaving individuals and organizations vulnerable to misuse of information by third parties. Enhanced cybersecurity measures and stronger data protection laws are needed to address these risks.

5. What measures are being taken by the government to address cybersecurity concerns in Pakistan?

Ans. The Pakistani government is addressing cybersecurity concerns through initiatives like the National Cyber Security Policy, which aims to strengthen digital infrastructure and protect data. The establishment of the National Response Centre for Cyber Crimes (NR3C) under the Federal Investigation Agency (FIA) helps investigate and prevent cybercrimes. Additionally, the government is working on data protection laws to regulate data privacy and ensure secure digital transactions, alongside initiatives to raise public awareness about cybersecurity.

Glossary

A to Z Glossary

Augmented Reality (AR)

Definition: A technology that overlays computer-generated images onto a user's view of the real world, thus creating a composite view.

Concept: It enhances the real world with digital elements, like using a phone app to see how furniture would look in your room.

Example Sentence: The company launched a mobile application that uses augmented reality to let customers virtually try on clothes.

Artificial Intelligence (AI)

Definition: The theory and development of computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, decision-making, and translation.

Concept: It involves creating smart machines that can learn, solve problems, and make decisions without explicit programming for every task.

Example Sentence: Artificial intelligence is now used in healthcare to analyze medical images and diagnose diseases with high accuracy.

Digitalization

Definition: The process of converting information into a digital format.

Concept: It is about changing how information is recorded and managed, moving from physical documents (like paper) to digital files.

Example Sentence: The school started a digitalization process to move all student records from paper files to a cloud database.

Globalization

Definition: The process of international integration arising from the interchange of world views, products, ideas, and other aspects of culture.

Concept: It is the increasing interconnectedness of the world's economies, cultures, and populations, driven by cross-border trade in goods and services, technology, and flows of investment, people, and information.

Example Sentence: Globalization has made it possible to buy products made in different countries all over the world.

The Internet of Things (IoT)

Definition: A system of interconnected computing devices, mechanical and digital machines, objects, animals, or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

Concept: It is the network of physical objects embedded with sensors and software that can exchange data over the internet.

Example Sentence: Smart homes rely on the Internet of Things, allowing appliances like refrigerators and thermostats to be controlled remotely.

Virtual Reality (VR)

Definition: A simulated experience that can be similar to or completely different from the real world.

Concept: It is a fully immersive, computer-generated world that users can explore and interact with, usually through a headset.

Example Sentence: The architects used virtual reality headsets to walk clients through the design of the new building before it was constructed.

Cybersecurity

Definition: The practice of defending computers, servers, mobile devices, electronic systems, networks, and data from malicious attacks.

Concept: It involves a set of measures and technologies designed to protect systems and information from theft or damage.

Example Sentence: The company hired a cybersecurity expert to enhance its defenses against potential hacking attempts.

Data Privacy

Definition: The right of individuals to control how their personal information is collected, used, and shared.

Concept: It is about ensuring personal information (like names, addresses, or photos) is protected and only used with permission.

Example Sentence: New legislation was passed to improve data privacy and give consumers more control over their online information.

E-commerce

Definition: Commercial transactions conducted electronically on the Internet.

Concept: It is simply buying and selling goods and services online, like using websites or apps for shopping.

Example Sentence: The growth of e-commerce has led to a significant decrease in foot traffic at physical retail stores.

Interconnectedness

Definition: The state of being connected with each other, especially across different countries or regions.

Concept: The idea that things (like economies or cultures) are linked and influence one another globally.

Example Sentence: The internet has vastly increased global interconnectedness, allowing instant communication across continents.

Economic Interdependence

Definition: A relationship in which nations are reliant on each other for goods and services to sustain their economies.

Concept: When countries rely on each other for trade and resources; if one economy struggles, others might be affected.

Example Sentence: The economic interdependence between the two neighboring nations ensures stable trade agreements.

Cultural Exchange

Definition: The reciprocal sharing of ideas, traditions, and values between different cultures.

Concept: When people from different backgrounds learn from and share aspects of their culture, like food or music.

Example Sentence: International student programs are a great way to promote cultural exchange and understanding.

Technological Advancements

Definition: Progress or innovation in the field of technology, resulting in new devices, processes, or knowledge.

Concept: The ongoing development of new and better tools and methods, like inventing a faster computer chip or a new medical scanner.

Example Sentence: Technological advancements in solar power have made renewable energy more affordable for homes.

Political Cooperation

Definition: The act of working together between governments or nations to achieve common goals, such as peace or stability.

Concept: Countries collaborating to solve global issues, often through international organizations like the UN.

Example Sentence: The nations agreed to political cooperation to combat the threat of global climate change.

Regulatory Frameworks

Definition: A system of rules, laws, and guidelines established by an authority to control or govern an area of activity.

Concept: The set of official rules that companies or people must follow, for example, rules about data protection or banking.

Example Sentence: Strong regulatory frameworks are essential to prevent monopolies in the digital market.

Disseminating

Definition: Spreading or dispersing information widely.

Concept: The action of sharing news or ideas so that many people can hear or read them.

Example Sentence: The news agency is responsible for disseminating accurate information quickly to the public.

Cyber Threats

Definition: Potential dangers or risks that may exploit vulnerabilities in digital systems to disrupt operations or steal data.

Concept: Actions like hacking or spreading viruses that try to harm computer systems or steal information.

Example Sentence: Companies must constantly update their software to defend against new cyber threats.

Choose the Correct Option

Choose the correct option.

The process of converting information into a digital format is called:

- Globalization
- E-commerce
- Digitalization**
- Virtual Reality

What best describes Economic Interdependence?

- Nations competing for the same resources.
- Nations trading only when absolutely necessary.
- Nations relying on each other for goods and services.**
- Nations only focusing on domestic production.

The main objective of the National Cyber Security Policy is to:

- Reduce international trade agreements.
- Strengthen digital infrastructure and protect data.**
- Control the flow of information on social media.
- Promote cultural exchange programs.

What does AR (Augmented Reality) do?

- Overlays computer-generated images onto the real world.**
- Creates a fully immersive, computer-generated world.
- Analyzes data and makes human-like decisions.
- Converts physical documents into digital files.

Which government body in Pakistan helps investigate and prevent cybercrimes?

- Pakistan Telecommunication Authority (PTA)
- National Database and Registration Authority (NADRA)
- National Response Centre for Cyber Crimes (NR3C)**
- Federal Board of Revenue (FBR)

Vocabulary and Grammar

Synonyms and Parts of Speech

Find the synonyms of the following words and also identify the parts of speech they belong to:

Integration

- Synonyms: unification, consolidation, merging
Part of speech: Noun

Fostering

- Synonyms: encouraging, promoting, nurturing
Part of speech: Verb (present participle)

Diluting

- Synonyms: weakening, thinning, adulterating
Part of speech: Verb (present participle)

Accelerated

- Synonyms: hastened, expedited, quickened
Part of speech: Verb (past tense) / Adjective

Crucial

- Synonyms: vital, essential, critical
Part of speech: Adjective

Vulnerable

Synonyms: susceptible, defenseless, exposed

Part of speech: Adjective

Enhance

Synonyms: improve, boost, augment

Part of speech: Verb

Grammar

Proof-reading Exercise

Paragraph #1

The rise of digital media has profoundly impacted how we consume information. **Media** platforms, from social networks to news websites, play an **integral** role in **disseminating** knowledge and shaping public opinion. However, this also brings challenges, such as the spread of misinformation and the need for greater media literacy.

Paragraph #2

Globalization is not merely an economic phenomenon; it also drives **cultural** exchange. This process **exposes** people to diverse traditions, but a concern remains that it might lead to the **dilution** of unique local identities. Maintaining a balance between global connectivity and cultural preservation is a key challenge in the modern world.

Paragraph #3

Cybersecurity is **becoming** increasingly critical in the age of digitalization. As businesses and individuals store **more** data online, the risk of cyber threats, such as **phishing** and ransomware, **increases**. Governments and corporations must continually **invest** in advanced protective measures to safeguard sensitive information.



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