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Class	10th	Chapter	07
Subject	Computer Science	Board	Federal

CHAPTER 7: Digital Literacy

Q1. Select the best answer for the following MCQs.

1. Which term is used for the ability to effectively use digital technologies to access information, evaluate it and convert it into meaningful and appealing format? a) Literacy | b) Digital Literacy | c) Social Media | d) Information

Answer: b) Digital Literacy

2. What is the best way to collect information about a topic you are interested in? a) Ask your friend | b) Read a random book | c) Search online and ask experts | d) Guess the information

Answer: c) Search online and ask experts

3. What is the benefit of using Google forms for information collection? a) Collect small amount of data | b) Quickly analyze and summarize data | c) Get historical data | d) Visualize data

Answer: b) Quickly analyze and summarize data

4. What is the most important step to convert information into graphics? a) Decide the purpose of graphics tool | b) Select the right tool | c) Check the local laws | d) Decide the number of design elements

Answer: a) Decide the purpose of graphics tool

5. Which of the following is the primary purpose of billboard design? a) Showcase company's identity | b) Entertain the audience | c) Grab attention of the audience | d) Provide details of the company

Answer: c) Grab attention of the audience

6. What is the primary benefit of using podcast as a learning tool? a) To provide brief overview of a topic | b) To present information in interactive way | c) To provide platform for international news | d) To facilitate language learning

Answer: b) To present information in interactive way

7. What is the role of a podcast host? a) To present their own opinion | b) To facilitate discussion and guide the conversation | c) To criticize the guest speaker | d) To praise the guest speaker

Answer: b) To facilitate discussion and guide the conversation

8. Which is the most common usage of social media besides audio and video calls? a) Education | b) Sharing necessary updates | c) Translation | d) Web Surfing
Answer: b) Sharing necessary updates
9. Which social media platform is mostly used for educational tutorials, skill teaching, and entertainment video contents? a) YouTube | b) Facebook | c) Instagram | d) Podcast
Answer: a) YouTube
10. Which social media platform is mostly used for news, discussion and opinions? a) Facebook | b) YouTube | c) X (Twitter) | d) Instagram
Answer: c) X (Twitter)

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Q2. Write answers of the following short response questions.

1. Differentiate between basic literacy and digital literacy.

- **Basic Literacy:** Refers to the fundamental ability to read, write, and understand printed text in a given language.
- **Digital Literacy:** Refers to the ability to use digital technology, communication tools, or networks to locate, evaluate, use, and create information effectively and safely in a digital environment.

2. Suggest strategies for integrating digital literacy into computer graphics.

- **Understanding Design Software:** Train users on how to operate raster and vector graphics tools (e.g., Adobe Photoshop, Canva, Illustrator).
- **Information Evaluation:** Teach students how to research visual trends, source copyright-free imagery, and verify factual data before representing it visually.
- **Target Audience Alignment:** Integrate critical thinking to tailor visual elements (color schemes, typography) to specific target audiences.

3. Describe the role of books in verifying information for academic purposes.

- Books undergo rigorous peer-review, editorial checks, and publishing standards, making them authoritative and reliable sources.
- They provide deep historical context, structured academic frameworks, and long-term stability for cross-checking online data or claims.

4. Discuss the relationship between communication, collaboration, and digital literacy.

- **Digital Literacy** provides the technical know-how and critical thinking skills required to navigate digital platforms.
- **Communication** relies on these digital skills to transmit ideas, messages, and multimedia content clearly across networks.
- **Collaboration** combines communication and digital tools (like cloud docs or shared project boards) enabling teams to work together efficiently regardless of geographical barriers.

5. Do you think that X (Twitter) plays vital role in opinion making about any social issue? Support your answer with three arguments.

Yes, X (Twitter) plays a vital role in shaping public opinion due to the following reasons:

1. **Real-Time Information Spread:** Breaking news and grassroots movements trend instantly, informing the public as events unfold.
2. **Direct Engagement:** Citizens can directly interact with policymakers, journalists, and public figures, driving public debate.
3. **Hashtag Campaigns:** Organized hashtags unite global voices around specific social causes, amplifying awareness and mobilizing public sentiment.

6. Outline effective strategies for identifying and countering online disinformation.

- **Source Verification:** Check the credibility, authorship, and background of the publishing source or website.

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- **Cross-Checking:** Compare news and facts across multiple reputable mainstream media outlets.
- **Reverse Image Search:** Use tools like Google Lens to check if photos or videos are taken out of context or manipulated.
- **Promoting Media Literacy:** Educate communities to pause, think critically, and avoid sharing unverified sensational content.

7. Differentiate between poster designing and billboard designing.

- **Poster Designing:** Typically smaller in scale, meant for close-range viewing (indoor or bulletin boards), and contains more detailed text and information.
- **Billboard Designing:** Large-scale outdoor displays meant for distant viewing by passing motorists or pedestrians. It requires minimal text, bold typography, and high-impact visuals to capture attention in just a few seconds.

8. Define social media and describe the significance of YouTube and Facebook.

- **Social Media:** Web-based and mobile technologies that allow individuals and communities to create, share, and exchange information, ideas, and multimedia content in virtual networks.
- **Significance of YouTube:** The largest video-sharing platform globally, serving as a primary hub for educational tutorials, skill-building, and digital entertainment.
- **Significance of Facebook:** A massive social networking platform connecting billions of users worldwide, essential for community building, news sharing, business marketing, and social communication.

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Q3. Write answers of the following extended response questions.

1. Explain the role of information collection in the field of digital literacy.

Information collection is a foundational pillar of digital literacy. It involves knowing where and how to search for reliable data using search engines, databases, surveys, and digital archives. In the digital age, data is abundant, but sorting through noise and misinformation requires critical evaluation skills. Effective information collection empowers individuals to gather accurate facts, conduct thorough research, make informed decisions, and build credible digital projects or content.

2. Analyze the key components of digital literacy and their significance.

The core components of digital literacy include:

- **Access:** The ability to efficiently find and retrieve digital information using modern hardware and software.
- **Evaluation:** Critically assessing the accuracy, credibility, bias, and relevance of online sources.
- **Creation:** Producing new digital content (text, graphics, audio, or video) that communicates ideas clearly.
- **Collaboration:** Working cooperatively with others using digital platforms and cloud tools.
- **Citizenship & Safety:** Understanding digital ethics, cyber safety, copyright laws, and responsible online behavior.
- **Significance:** Together, these components equip individuals to navigate the modern digital economy safely, productively, and ethically.

3. Define information extraction and its purpose.

- **Definition:** Information extraction is the automated or manual process of scanning unstructured or semi-structured digital texts, documents, or databases to pull out specific, predefined categories of structured information (such as names, dates, key concepts, or statistics).
- **Purpose:** Its main purpose is to transform raw, overwhelming amounts of data into concise, digestible, and actionable insights. It saves time in research, aids in data analytics, improves database management, and helps users quickly locate essential facts without reading entire documents.

4. Illustrate the use of images and graphics in billboard design.

Billboards rely heavily on visual communication because viewers (drivers and pedestrians) only glance at them for a few seconds.

- **High-Contrast Imagery:** Bold, high-resolution photographs or illustrations instantly grab attention from a distance.
- **Simplification:** Complex messages are replaced with a single symbolic image that communicates the core product or social message instantly.
- **Emotional Appeal:** Visuals evoke emotions (e.g., humor, urgency, excitement) much faster than text.

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- **Brand Recognition:** Prominent logo placement combined with a striking graphic ensures long-lasting brand recall.

5. Discuss the impact of social media on contemporary communication, referencing YouTube and WhatsApp as examples.

Social media has revolutionized contemporary communication by removing geographical boundaries, enabling instant messaging, and democratizing content creation.

- **WhatsApp as an Example:** It has transformed personal and professional communication through instant text messaging, end-to-end encrypted voice/video calls, and group chats, making global communication instant and cost-effective.
- **YouTube as an Example:** It has transformed mass communication and education from a one-way broadcasting model (traditional TV) to a participatory two-way street where anyone can publish tutorials, documentaries, or creative media, fostering global learning communities and digital creator economies.

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