

2025

DIGITAL EMPOWERMENT — HONOURS

Paper : SEC-2

Full Marks : 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Answer *any twenty five* questions.

2×25

1. The reason for granting Intellectual Property Rights (IPR) to creators is
 - (A) to allow free public access to creative works
 - (B) to give creators moral and financial control over their work
 - (C) to promote open sharing of knowledge with restrictions
 - (D) not to make works available for public domain after creation.
2. Which of the following best represents plagiarism in an academic setting?
 - (A) Copying your own previously submitted work in a new assignment
 - (B) Citing a source in the bibliography but not in the main text
 - (C) Copying text from a source and without doing citation
 - (D) Summarizing a source's ideas with a proper citation.
3. Which platform gives variety of online courses by experts?
 - (A) Coursera
 - (B) Microsoft PowerBi
 - (C) Google Studio
 - (D) Google Colab.
4. Which of the following is a common goal of a Distributed Denial of Service (DDoS) attack conducted by hackers?
 - (A) To permanently delete all files from a target server
 - (B) To secretly steal user credentials from a database
 - (C) To overwhelm a server or network, rendering services unavailable to users
 - (D) To gain administrative control of a computer system.

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5. What is the primary characteristic of reinforcement learning?
- (A) The model learns from labelled data.
 (B) The model learns from unlabelled data.
 (C) The model learns from a combination of labelled and unlabelled data.
 (D) The model learns from rewards and punishment.
6. What was the primary objective of the National Cyber Security Awareness Month (NCSAM) 2014 in India?
- (A) To provide antivirus software to all government organizations
 (B) To investigate cybercrime cases across the country
 (C) To develop national-level cybersecurity for devices
 (D) To promote cybersecurity awareness and safe online practices.
7. Digital Literacy refers to _____.
- (A) the proper use of digital technology in business
 (B) competence in using digital tools and technologies
 (C) proficiency in digital learning
 (D) understanding the use of secure system and devices.
8. Using unauthorized access to someone's data without his / her permission is called _____.
- (A) Identity Theft (B) Phishing
 (C) Malware (D) Keystroke Login.
9. To store patient's data digitally which can be further processed for medical purpose is known as _____.
- (A) Digital Health Record (DHR) (B) Online Health Record (OHR)
 (C) Health Record Server (D) Electronic Health Record (EHR).
10. Match List-I with List-II—

List-I	List-II
(i) Virus	(w) Malicious code disguised as legitimate software
(ii) Worm	(x) Self-replicating malware that spreads automatically
(iii) Trojan	(y) Code that needs a host file to spread automatically
(iv) Hacking	(z) Unauthorized access to data or systems

Choose the correct option :

- (A) (i) → y; (ii) → x; (iii) → w; (iv) → z
 (B) (i) → x; (ii) → y; (iii) → w; (iv) → z
 (C) (i) → w; (ii) → x; (iii) → y; (iv) → z
 (D) (i) → x; (ii) → w; (iii) → z; (iv) → y.

11. Match List-I with List-II—

List-I	List-II
(i) Digilocker	(w) Financial Services
(ii) BHIM	(x) Digital Revolution
(iii) E-Kranti	(y) Academics and Education
(iv) E-Paathshala	(z) Document Management and Storage

Choose the correct option :

- (A) (i) → y; (ii) → x; (iii) → z; (iv) → y
 (B) (i) → w; (ii) → x; (iii) → z; (iv) → y
 (C) (i) → z; (ii) → w; (iii) → x; (iv) → y
 (D) (i) → z; (ii) → x; (iii) → w; (iv) → y.
12. Digital Citizenship refers to
 (A) the ability to use digital devices properly
 (B) the right to choose the system for securing citizen's digital devices
 (C) responsible and ethical behaviour when using digital technology and online platforms
 (D) the legal ownership of the citizens of digital property like websites and software.
13. What is the primary goal of the 'Digital India' initiative launched by the Government of India?
 (A) To enhance digital awareness between users
 (B) To ensure universal access to digital infrastructure and government services
 (C) To provide secure login methods for data protection along with cybersecurity
 (D) All of the above.
14. What are the norms of an online community?
 (A) Rules and guidelines that govern behaviour within the community
 (B) The number of members in the community for digital empowerment
 (C) The frequency of online interactions that helps a strong connection
 (D) The design and layout of the online platform for digital growth.
15. Find the correct relationship between Artificial Intelligence (AI), Deep Learning (DL) and Machine Learning (ML) :
 (A) AI is a subset of ML and ML is a subset of DL.
 (B) DL is a subset of ML and ML is a subset of AI.
 (C) DL is a subset of AI and AI is a subset of ML.
 (D) AI is a subset of DL and DL is a subset of ML.

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16. Match List-I with List-II—

List-I	List-II
(i) Google Drive	(w) Online Meeting
(ii) Moodle	(x) Online Document Storage
(iii) Cisco Webex	(y) Online Payment System
(iv) UPI	(z) Online Courses

Choose the correct option :

- (A) (i) → x; (ii) → w; (iii) → z; (iv) → y
 (B) (i) → w; (ii) → x; (iii) → z; (iv) → y
 (C) (i) → z; (ii) → w; (iii) → x; (iv) → y
 (D) (i) → x; (ii) → z; (iii) → w; (iv) → y.
17. Hacking refers to
 (A) unauthorized access to someone's system
 (B) legitimate access to someone's system
 (C) entering the system for the security purpose
 (D) All of the above.
18. Consider the following statements and choose which one is the correct option :
- **Statement 1 : In unsupervised learning, the algorithm learns from labelled data to make predictions or classifications.**
 - **Statement 2 : Supervised learning uses unlabelled datasets to train models that group data into predefined categories.**
- (A) Both the statements are true.
 (B) Statement 1 is true, but statement 2 is false.
 (C) Statement 1 is false, but statement 2 is true.
 (D) Both the statements are false.
19. Which of the following is a cloud-based collaborative document editing?
 (A) Adobe Document Editor (B) MS Word
 (C) Google Docs (D) Microsoft Cortana.
20. Which of the following is true about Natural Language Processing (NLP)?
 (A) It processes only numerical data
 (B) It interprets and generates human language text
 (C) It only works in mobile apps
 (D) It is used to design spreadsheets.

21. Which of the following tools uses NLP for writing assistance?
(A) Notepad (B) Grammarly
(C) VLC (D) PowerPoint.
22. What is a significant risk of poor digital hygiene?
(A) Increased vulnerability to malware and phishing
(B) Deletion of old passwords
(C) Faster device speed
(D) Running out of RAM.
23. How can cloud computing impact education positively?
(A) Reduces access to updated material (B) Prevents student tracking
(C) Limits multimedia content (D) Provides scalable access to learning tools.
24. Which of the following is the key issue in using AI in legal decisions?
(A) AI can read laws better
(B) AI is always unbiased
(C) Potential lack of transparency in decision logic
(D) AI is approved in all courts.
25. What differentiates digital identity from physical identity?
(A) It uses paper-based documents (B) It cannot be verified
(C) It is stored and accessed electronically. (D) It has no legal validity.
26. Which best defines an LMS (Learning Management System)?
(A) A tool for video conferencing only
(B) A database to store student marks
(C) A platform to manage and track learning content and activities
(D) A text editor for educators.
27. Why is encryption important in digital communication?
(A) It slows down the internet (B) It protects data from unauthorized access
(C) It beautifies the interface (D) It shortens file size.
28. What is one of the most critical weaknesses in biometric authentication?
(A) Difficult to use (B) Cannot be copied
(C) Only works offline (D) Cannot be reset if compromised.

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