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**BRAINWARE UNIVERSITY**

Library
Brainware University
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Term End Examination 2025-2026**Programme – B.Tech.(CSE)-AIML-2025****Course Name – Essential Computing and AI Tools for Engineers****Course Code - BES07018 (T)****(Semester II)****Full Marks : 40****Time : 2:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A**(Multiple Choice Type Question)****1 x 10=10****1. Choose the correct alternative from the following :**

- (i) Recall the architecture where all nodes have equal roles.
 - a) Client-Server
 - b) Multi-tier
 - c) Peer-to-Peer
 - d) Middleware
- (ii) Recall one example of a data visualization tool.
 - a) TensorFlow
 - b) Tableau
 - c) MySQL
 - d) Hadoop
- (iii) Explain why serverless reduces cost.
 - a) Free hardware
 - b) Pay only for execution time
 - c) Fixed monthly fee
 - d) No code
- (iv) Interpret the learning element in learning agents.
 - a) Executes actions
 - b) Improves performance
 - c) Gives rewards
 - d) Stores data
- (v) Explain the concept of “layered depth” in digital academic presentations.
 - a) Animations
 - b) Hyperlinks to sources
 - c) Voice narration
 - d) Color usage
- (vi) Explain the rule of thirds in presentation design.
 - a) Center alignment
 - b) Balanced composition
 - c) Font scaling
 - d) Text spacing
- (vii) Explain how static websites deliver content.
 - a) Generate pages dynamically
 - b) Deliver pre-written HTML
 - c) Use APIs
 - d) Use databases
- (viii) Interpret the use of React.js in development.
 - a) Database
 - b) UI framework
 - c) Server runtime
 - d) OS
- (ix) Explain why regular backups are essential.

- a) Improve UI
- c) Speed up systems
- (x) Interpret a digital footprint.
- a) Physical trail
- c) Software logs

- b) Recover lost data
- d) Prevent phishing
- b) Online data trail
- d) Network topology

Group-B

(Short Answer Type Questions)

3 x 5=15

- 2. Explain responsive web design with reference to device adaptability and user experience. (3)
- 3. Define a client-server system. (3)
- 4. Explain the BLUF principle in professional presentations. (3)
- 5. Explain active and passive digital footprints. (3)
- 6. Analyze why responsive design is critical for modern websites. (3)

OR

- Analyze the advantages of API-based architecture over CGI. (3)

Group-C

(Long Answer Type Questions)

5 x 3=15

- 7. Recall and explain the steps involved in the client-server request-response cycle. (5)
- 8. Explain the three core presentation contexts in the digital era. (5)
- 9. Create slide design guidelines using color and typography rules. (5)

OR

- Design an AI-assisted workflow for building presentations. (5)

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