

Step Academy official

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STUDENT NAME	
PAPER CODE	58316
TIME ALLOWED	150
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CLASS	New 1st Year (FSC/ICS)
SUBJECT	Computer
TOTAL MARKS	100
Paper Type	

Q1. Choose the correct answer.

15X1=15

1. An example of a basic statistical model:

- (A) Linear Regression (B) Neural Networks (C) Decision Trees (D) Support Vector Machines

2. The activity involved in experimental design in data science:

- (A) Creating visualizations (B) Collecting and analyzing data systematically (C) Writing code for machine learning (D) Building databases

3. An example of a real-world application of statistical models:

- (A) Predicting house prices (B) Creating social media posts (C) Designing websites (D) Writing essays

4. Option not considered a benefit of data visualization:

- (A) Identifying trends and patterns (B) Communicating insights effectively (C) Making data more complex (D) Summarizing large datasets

5. A commonly used tool for creating data visualizations:

- (A) MS Excel (B) Python (Matplotlib) (C) Tableau (D) All of the above

6. The main benefit of edge computing:

- (A) Lower cost (B) Reduced latency (C) Increased complexity (D) Enhanced security

7. A cloud deployment model with resources organizations with common concerns:

- (A) Public Cloud (B) Private Cloud (C) Community Cloud (D) Hybrid Cloud

8. The purpose of the "Limitations of Liability" clause in Terms:

- (A) Ensures full company responsibility (B) Limits company's liability (C) Provides user rights for damages (D) Guarantees constant service availability

9. The type of harmful software that secretly monitors user activity:

- (A) Spam (B) Cookies (C) Spyware (D) Pharming

10. The reason for understanding bias during information evaluation:

- (A) Ignoring other viewpoints (B) Recognizing the source's agenda (C) Validating all sources equally (D) Avoiding evaluation altogether

11. Importance of being specific when formulating a research question:

- (A) To ensure it covers a wide range of topics (B) To clearly define what you want to find and avoid vagueness (C) To include as much information as possible (D) To make the research more generalizable

12. The key purpose of online libraries:

- (A) Providing access to entertainment (B) Offering a variety of academic resources (C) Promoting social media interaction (D) Selling digital books and materials
13. A principle of Design Thinking is:
- (A) Focusing on profits (B) Human-centered approach (C) Minimizing risks (D) Emphasizing short-term
14. The first step in creating a business plan involves:
- (A) Financial forecasting (B) Market analysis (C) Defining the business idea (D) Setting sales targets
15. A key component of effective marketing is:
- (A) High pricing (B) Strong brand identity (C) Random advertising (D) Reducing production costs

Q2. Write short answers of the following questions. Any 6

6X2=12

- 1 . What is the mean of a dataset, and how is it calculated?
- 2 . What is the mode of a dataset, and how can it be determined?
- 3 . What is the mean of the dataset: 50, 52, 55, 57, 60?
- 4 . Which class had more scattered scores, Class A or Class B?
- 5 . What is probability?
- 6 . How do experiments help in data collection?
- 7 .
- 8 . Give one example of cloud computing.
- 9 . How does scalability help in cloud computing?

Q3. Write short answers of the following questions. Any 6

6X2=12

- 1 . Differentiate between Elasticity and On-Demand access in cloud computing.
- 2 . What is scalability in cloud computing?
- 3 . What is compliance in the context of cloud computing?
- 4 . How do Terms of Use help prevent misunderstandings?
- 5 . Why are privacy clauses important in Terms of Use?
- 6 . What personal rights are protected in Terms of Use?
- 7 . Differentiate between phishing and pharming.
- 8 . How does responsible data sharing contribute to ethical use of information?
- 9 . What is the purpose of intellectual property protection?

Q4. Write short answers of the following questions. Any 6

6X2=12

- 1 . What is the purpose of a "User Obligation" clause in Terms of Use?
- 2 . Differentiate between phishing and pharming.
- 3 . What is cybersecurity awareness, and why is it important?

- 4 . What is health research and how can it be useful?
- 5 . How can a researcher ensure integrity in their study?
- 6 . What is the purpose of the financial plan in a business plan?
- 7 . What is the main benefit of using collaborative tools like Google Drive or Dropbox Paper?
- 8 . Why is listening important during communication?
- 9 . What role do visual aids play in storytelling?

Q5. Write detailed answers of the following questions. Any 3

3X8=24

- 1 . Describe "Cloud Deployment Models" with examples
- 2 . Explain the process of creating a business plan, and why each step is critical to the success of a new business.
- 3 . What are the essential components of a marketing and sales strategy? Discuss how these strategies can be tailored for different markets.
- 4 . Discuss the different types of online research and their purposes, providing examples for each type.
- 5 . Discuss the types of data visualizations and their uses.