

AI

1. What is the primary goal of Big Data Analytics?
 - (1) To store data in large warehouses
 - (2) To find useful information, patterns, and trends in large datasets
 - (3) To delete redundant data
 - (4) To convert all data into structured formats.
2. Which Generative AI model architecture is specifically designed for sequential data generation, predicting the next element based on previous ones?
 - (1) Generative Adversarial Network (GAN)
 - (2) Variational Autoencoder (VAE)
 - (3) Autoregressive Model (e.g., GPT)
 - (4) Convolutional Neural Network (CNN).
3. What is the key difference between image classification and object detection?
 - (1) Classification draws bounding boxes, detection does not.
 - (2) Detection assigns a single label to the whole image, classification labels multiple objects.
 - (3) Classification assigns a single label to the whole image, detection finds and labels multiple objects.
 - (4) Detection is only for videos, classification is for images..
4. Data from a national census bureau used for a market research project is an example of:
 - (1) Primary Data
 - (2) Secondary Data
 - (3) Operational Data
 - (4) Simulated Data.
5. The primary purpose of the `'merge()'` function in Pandas is to:
 - (1) Combine two DataFrames based on a common key
 - (2) Append rows from one DataFrame to another
 - (3) Delete duplicate columns
 - (4) Sort the DataFrame.
6. Which type of analytics would be used to run simulations and evaluate different strategies to recommend the best course of action?
 - (1) Descriptive
 - (2) Diagnostic
 - (3) Predictive
 - (4) Prescriptive.
7. The ethical concern that generative AI could be used to create highly targeted propaganda or fake news is an example of:
 - (1) Algorithmic Bias
 - (2) Misinformation and Manipulation
 - (3) Privacy Violation
 - (4) Environmental Impact.
8. The 'How' in the 5W1H framework for data collection specifically addresses:
 - (1) Why the data is needed
 - (2) Who will collect the data
 - (3) The methods and tools used to gather the data
 - (4) When the data will be collected.
9. A word cloud is a visualization where the size of each word indicates its:
 - (1) Frequency or importance in a text
 - (2) Alphabetical order
 - (3) Color
 - (4) Length.
10. Which Orange widget is used to apply a series of preprocessing steps, such as normalization and imputation, to a dataset?
 - (1) Preprocess Widget
 - (2) File Widget
 - (3) Data Table Widget
 - (4) Test and Score Widget.

No.	Chapter	QID	Answer	Details
Q.1	Python Programming	811619	2	
Q.2	Making Machines See	811725	3	
Q.3	Data Storytelling	811602	3	
Q.4	AI with Orange Data Mining Tool	811798	2	
Q.5	Making Machines See	811765	1	
Q.6	Understanding Neural Networks	811728	4	
Q.7	Data Science Methodology	811986	2	
Q.8	Understanding Neural Networks	811848	3	
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Q.10	Data Storytelling	811722	1	