Name of educator	**Guranna Gouda**
Title of Project	**AI Based Urban Planning**

	Question	Options-provide 4 options **All of the above and** **None of the above** **Strictly not allowed**	Correct answer
Q1	What is the main purpose of " AI Based urban planning" project?	A) To design aesthetically pleasing buildings and structures B) To manage the growth and development of urban areas C) To enforce zoning laws for residential and commercial properties D) To prioritize the construction of transportation infrastructure only	**B) To manage the growth and development of urban areas**
Q2	Which of the following is a key challenge when implementing AI in urban planning?	A) Lack of computational power B) Difficulty in collecting accurate and comprehensive data C) High costs of AI hardware D) Limited AI models available for urban scenarios	**B) Difficulty in collecting accurate and comprehensive data**

Q3	Which of the following AI technologies can assist in optimizing traffic flow in cities?	A) Deep Learning for image analysis of traffic congestion B) Chatbots for urban planning feedback C) Voice recognition for citizen complaints D) Virtual Reality for urban design walkthroughs	**B) Deep Learning for image analysis of traffic congestion**
Q4	What is the primary advantage of using AI in urban planning?	A) AI can replace all human urban planners B) AI helps in predicting and optimizing land use and infrastructure C) AI is mainly used to design aesthetically appealing buildings D) AI eliminates the need for any regulatory zoning laws	**B) AI helps in predicting and optimizing land use and infrastructure**
Q5	How does machine learning help in urban planning decision-making?	A) By manually adjusting city infrastructure to match current population density B) By analyzing large datasets to detect patterns and predict future trends	**B) By analyzing large datasets to detect patterns and predict future trends**

		C) By creating static models that do not change over time D) By replacing human planners with fully automated systems	
Q6	Which data type is essential for AI models to work effectively in urban planning?	A) Only traffic data B) Geographic Information System (GIS) data C) Social media activity D) Only weather data	**B) Geographic Information System (GIS) data**
Q7	How can AI help in managing smart city infrastructure?	A) By monitoring and optimizing energy usage, water distribution, and waste management systems B) By creating more parking spaces C) By reducing the number of roads and highways D) By automating the design of city architecture	**D) By monitoring and optimizing energy usage, water distribution, and waste management systems**

Q8	How do Keras and TensorFlow help in urban planning?	A) Build physical infrastructure B) Predict traffic patterns and optimize routes C) Automate city construction D) Replace all human planners	**B) Predict traffic patterns and optimize routes**
Q9	What is the primary use of GeoPandas in urban planning?	A) Analyzing and visualizing spatial data such as land use, zoning, and infrastructure B) Automating the construction of buildings C) Designing road networks D) Replacing city planners	**A) Analyzing and visualizing spatial data such as land use, zoning, and infrastructure**
Q10	Which data format is commonly used with GeoPandas?	A) CSV files B) JSON files C) Shapefiles and GeoJSON D) Excel spreadsheets	**A) Shapefiles and GeoJSON**