

DUAT06 Model Question Paper

M.Sc. Data Science and Geoinformatics

Model Set - 10 MCQs

Instructions: Choose the most appropriate answer from the four options given.

1. Choose the correct conjunction to complete the sentence: "The field survey was planned carefully, ___ heavy rainfall delayed the work."

- A. and
- B. but
- C. or
- D. because

2. The price of a satellite image increases from Rs. 4,000 to Rs. 4,800. What is the percentage increase?

- A. 10%
- B. 15%
- C. 20%
- D. 25%

3. Find the next term in the series: 6, 12, 24, 48, ___

- A. 72
- B. 84
- C. 96
- D. 108

4. Which of the following is a measure of dispersion?

- A. Mean
- B. Median
- C. Mode
- D. Standard deviation

5. If $P(A) = 0.7$, then the probability of the complement of A is:

- A. 0.2
- B. 0.3
- C. 0.7
- D. 1.7

6. The layer of the Earth that includes the crust and uppermost mantle is called the:

- A. Hydrosphere
- B. Lithosphere
- C. Atmosphere
- D. Biosphere

7. Which of the following is a renewable source of energy?

- A. Coal
- B. Petroleum
- C. Natural gas
- D. Solar energy

8. In remote sensing, spatial resolution refers to:

- A. The number of spectral bands recorded
- B. The smallest ground area represented by one pixel

- C. The frequency with which a satellite revisits an area
- D. The range of brightness values recorded by a sensor

9. Which of the following is a vector data type in GIS?

- A. Pixel grid
- B. Raster image
- C. Point layer
- D. Satellite photograph

10. Which part of the CPU performs arithmetic and logical operations?

- A. Control Unit
- B. Arithmetic Logic Unit
- C. Cache Memory
- D. Input Device