



Work sheet(Unit wise Objective)

UNIT – V: Modern Surveying Methods and Photogrammetry

Part – A: Multiple Choice Questions (20 MCQs)

1. EDM stands for
 - A) Electronic Distance Measurement
 - B) Electrical Distance Meter
 - C) Electronic Data Measurement
 - D) Earth Distance Measurement**Answer: A**
2. Which instrument measures distances electronically?
 - A) Chain
 - B) Tape
 - C) EDM Instrument
 - D) Compass**Answer: C**
3. Total Station is a combination of
 - A) Theodolite and Level
 - B) EDM and Electronic Theodolite
 - C) Compass and Chain
 - D) GPS and Compass**Answer: B**
4. Which of the following is an advantage of a Total Station?
 - A) High accuracy
 - B) Faster data collection
 - C) Digital data storage
 - D) All of the above**Answer: D**
5. Total Station is mainly used for
 - A) Distance and angle measurement
 - B) Soil testing
 - C) Concrete testing
 - D) Material testing**Answer: A**
6. Which error is common in Total Station surveying?
 - A) Instrumental error
 - B) Human error
 - C) Natural error
 - D) All of the above**Answer: D**
7. GPS stands for
 - A) Global Positioning System
 - B) General Positioning System
 - C) Global Planning System
 - D) Geographical Positioning Service**Answer: A**
8. GPS is mainly used for determining
 - A) Position
 - B) Area
 - C) Volume
 - D) Chain Length**Answer: A**

9. GPS works with the help of

- A) Satellites
- B) Towers
- C) Ships
- D) Aircraft only

Answer: A

10. Photogrammetry is the science of obtaining measurements from

- A) Maps
- B) Photographs
- C) Chains
- D) Levels

Answer: B

11. Aerial photographs are taken from

- A) Ground
- B) Aircraft or Drone
- C) Ship
- D) Tunnel

Answer: B

12. Relief displacement in aerial photographs is caused by

- A) Height of objects
- B) Temperature
- C) Wind
- D) Scale

Answer: A

13. Tilt displacement occurs due to

- A) Inclination of the camera axis
- B) Earth's rotation
- C) Staff error
- D) Instrument error

Answer: A

14. Terrestrial photogrammetry is carried out from

- A) Satellites
- B) Ground Stations
- C) Aircraft
- D) Balloons

Answer: B

15. Flight planning is important for

- A) Proper aerial photography
- B) Chain Survey
- C) Levelling
- D) Traversing

Answer: A

16. Total Station stores field data in

- A) Digital Memory
- B) Notebook only
- C) Drawing Sheet
- D) Staff Book

Answer: A

17. Which surveying method is most suitable for large-area mapping?

- A) Chain Survey
- B) Photogrammetry
- C) Compass Survey
- D) Plane Table Survey

Answer: B

18. EDM instruments measure distance using

- A) Electromagnetic Waves
- B) Steel Tape
- C) Chain
- D) Rope

Answer: A

19. GPS provides coordinates in

- A) Latitude and Longitude
- B) Bearings
- C) Chain Length
- D) Reduced Levels only

Answer: A

20. Modern surveying methods improve

- A) Speed and Accuracy
- B) Cost only
- C) Manual Work only
- D) Staff Reading only

Answer: A

Part – B: Fill in the Blanks (Answers Beside the Questions)

1. EDM stands for _____ (**Electronic Distance Measurement**).
2. EDM instruments measure distance using _____ (**Electromagnetic Waves**).
3. A Total Station combines an electronic theodolite and _____ (**EDM**).
4. Total Station provides high _____ (**Accuracy**) in surveying.
5. Survey data collected by a Total Station are stored in _____ (**Digital Memory**).
6. Errors in Total Station surveying may be _____ (**Instrumental**), natural, or personal.
7. GPS stands for _____ (**Global Positioning System**).
8. GPS determines the _____ (**Position**) of a point on the Earth's surface.
9. GPS operates with the help of _____ (**Satellites**).
10. Photogrammetry is the science of making measurements from _____ (**Photographs**).
11. Aerial photographs are generally taken from an _____ (**Aircraft**).
12. The geometry used in aerial photography is called _____ (**Perspective Geometry**).
13. Relief displacement is caused by the _____ (**Height**) of objects.
14. Tilt displacement occurs due to the _____ (**Tilt**) of the camera.
15. Terrestrial photogrammetry is carried out from the _____ (**Ground**).
16. Proper _____ (**Flight Planning**) is essential for aerial surveys.
17. Total Station is widely used for _____ (**Topographic Surveying**).
18. GPS is commonly used for _____ (**Navigation**) and surveying.
19. Photogrammetry is suitable for mapping _____ (**Large Areas**).
20. Modern surveying techniques improve _____ (**Efficiency**) and accuracy.