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Question Paper Code: U1405

B.E. / B.Tech. DEGREE EXAMINATION, APRIL / MAY 2025

Professional Elective

Civil Engineering

21CEV405- PHOTOGRAMMETRY

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. The lens used in aerial photogrammetry is having a maximum coverage capacity of _____ (in angles) CO 1- U
(a) 93^0 (b) 63^0 (c) 53^0 (d) 98^0
2. If the apparent horizon is shown in a photograph, it is low oblique. CO 1- U
(a) True (b) False (c) both (a) & (b) (d) None of these
3. Perspective projection is produced from CO 1- U
a) Straight lines radiating a common point
b) Straight lines radiating different points
c) Parallel lines radiating a common point
d) Perpendicular lines radiating a common point
4. Flying height refers to CO1- U
(a) Upper portion of the exposure station (b) Bottom of the exposure station
(c) Depression of the exposure station (d) Elevation of the exposure station
5. Aerial photographs are taken from which perspective? CO1- U
(a) Ground level (b) Satellite level
(c) Airborne platform (d) Underwater platform

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| 6. | What is the main advantage of using aerial photographs in geography? | CO1- U |
| | (a) Real-time data (b) High cost | |
| | (c) Large coverage area (d) Low resolution | |
| 7. | The ratio of the distance on the ground to the corresponding distance on the photograph is called: | CO1- U |
| | (a) Perspective (b) Resolution | |
| | (c) Scale (d) Altitude | |
| 8. | Which type of aerial photograph is taken with the camera axis inclined at an angle to the vertical plane? | CO1- U |
| | (a) Vertical photograph (b) Oblique photograph | |
| | (c) Panoramic photograph (d) Terrestrial photograph | |
| 9. | Aerial photographs are used to create digital terrain models for which of the following purposes? | CO1- U |
| | (a) Flood mapping (b) Oil exploration | |
| | (c) Forest inventory (d) Radio broadcasting | |
| 10. | The area covered by an aerial photograph is known as: | CO1- U |
| | (a) Field of view (b) Aspect ratio | |
| | (c) Elevation (d) Pixel size | |

PART – B (5 x 2=10 Marks)

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| 11 | Mention the various applications of photogrammetry. | CO1-U |
| 12 | Mention the coordinate system. | CO1-U |
| 13 | What is called as orientation? | CO1-U |
| 14 | What is stereoplotter? | CO1-U |
| 15 | What is DEM? | CO1-U |

PART – C (5 x 16= 80 Marks)

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|-----|--|-------|------|
| 16. | (a) What is Photographs? And its various types. | CO1-U | (16) |
| | Or | | |
| | (b) Explain the various factors to execute the programmerty projects | CO1-U | (16) |
| 17 | (a) Explain in details about the stereoscopic parallax. | CO1-U | (16) |
| | Or | | |

- (b) Explain in details about the - Photo Interpretation, Relief displacement. CO1-U (16)
18. (a) Explain the various types of orientation system. CO1-U (16)
 .Or
 (b) Explain about the Three-dimensional coordinate transformations. CO1-U (16)
- 19 (a) Explain about the contour mapping. CO1-U (16)
 .Or
 (b) Explain about the various feature collection methods. CO1-U (16)
- 20 (a) Explain about the satellite photogrammetry. CO1-U (16)
 .Or
 (b) Explain the various matching techniques. CO1-U (16)

