Reg. No. : | | | | | | | | | | | | |

Question Paper Code: U1401

B.E. / B.Tech DEGREE EXAMINATION, NOV 2024

Professional Elective

Civil Engineering

21CEV401-MODERN SURVEYING

(Regulations 2021)

Duration: Three hours Maximum: 100 Marks

Answer All Questions

PART A - (5 x 1 = 5Marks)

1. Among the following, which is having more prominence while conducting sounding? CO1-U

   (a) Labor (b) Signal

   (c) Sounding pole (d) Suitable climatic conditions

2. The point on the celestial sphere vertically below the observer's position, is called CO2-U

   (a) zenith (b) celestial point (c) nadir (d) pole.

3. Which of the following is not a type of shutter used in aerial photogrammetry? CO3-U

   (a) Between-the-lens shutter (b) Louvre shutter

   (c) Ideal shutter (d) Focal plane shutter

4. In total station, data is stored in _____ CO4-U

   (a) Pen drive (b) Data card (c) Micro processor (d) External hardware

5. Remote sensing is a _____ recording of information CO5-U

   (a) Contact (b) Non - contact (c) Both A and B (d) None

PART – B (5 x 3= 15Marks)

6. Explain the term of sounding rod and lead line CO1-U

7. Mention the various applications of astronomical surveying CO1-U

8. What is photogrammetry CO1-U

9. What is EDM CO1-U

10. What is remote sensing CO1-U

PART – C (5 x 16= 80Marks)

11.	(a)	Explain the various method of sounding	CO1-U	(16)
		Or		
	(b)	State and explain modern techniques for hydrographic Survey.	CO1-U	(16)
12.	(a)	Apply the various techniques in the astronomical surveying.	CO2-App	(16)
		Or		
	(b)	Apply and execute to measure the latitude and longitude of a place	CO2-App	(16)
13.	(a)	Explain in detail about photogrammetry	CO3-U	(16)
		Or		
	(b)	Explain in detail about Relief and tilt displacement	CO3-U	(16)
14.	(a)	Explain in details about the EDM	CO4-U	(16)
		Or		
	(b)	Explain the various corrections in total station	CO4-U	(16)
15.	(a)	Explain the various components of remote sensing system	CO5-U	(16)
		Or		
	(b)	What are the various projections in GIS	CO5-U	(16)