

Total No. of Questions – [3]

Total No. of Printed Pages: 1

G.R. No.

PAPER CODE

U222-223 (ESE)

May 2022 (ENDSEM) EXAM
S.Y. B. TECH. (CIVIL)(SEMESTER - II)
COURSE NAME: Surveying
COURSE CODE: CVUA22203
(PATTERN 2020)

Time: [1Hr]

[Max. Marks: 30]

(*) Instructions to candidates:

- 1) Figures to the right indicate full marks.
- 2) 'a' part of every question is compulsory
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

- Q.1 a) State advantages and disadvantages of total station [4]
 b) Explain applications of tachemeter in surveying [6]
 OR
 b) Tacheometer reads staff intercept as 0.496m on vertical staff [6]
 at 50m away from instrument .The focal length of object glass
 is 356mm ,the distance between object glass and vertical axis
 is 146mm, determine value of multiplying constant K [4]
Q2 a) Sketch types of horizontal curves [4]
 b) State different methods of curve setting and explain any one [6]
 in detail [6]
 OR
 b) circular curve has radius of 250m and 70 degree deflection
 angle , determine 1) tangent length 2) length of long chord 3)
 length of curve
Q.3 a) What is remote sensing ?state applications of remote sensing [4]
 b) Explain components of GIS [6]
 OR [6]
 b) Explain segments of GPS