Roll No.

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B020314(020)

B. Tech. (Third Semester) Examination, Nov.-Dec. 2020

(New Scheme)

ments to the value (Civil Enga Branch) as golden to a

PLANE SURVEYING LOVE THE SILE

Time Allowed: Three hours

Maximum Marks : 190 of second 1/ (s)

Minimum Pass Marks : 40- 35

Note: Part (a) is compulsory in all the questions.

Attempt any two parts from (b), (c) and (d).

method of contant interpolation

1. (a) What is Leveling and why it is important in survey work?

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	4	-1

(b)	Explain in detail the permanent adjustment of a Dumpy level.	8
(c)	Write short notes on: (any two)	8
	(i) Reciprocal leveling(ii) Fly leveling	
	(iii) Profiles leveling	
(d)	Discuss the effect of curvature and refraction applied to leveling and deduce expression for each of them along with the combined correction.	8
	Unit-II	
(a)	What is the differences between vertical cliff and over hanging cliff, draw contours for that?	4
(b)	What are the different methods of locating contours?	8
(c)	What is interpolation of contours? Explain any one method of contour interpolation.	8
(d)	Draw neat sketch and explain working of any two minor instruments: (i) Hand level	8

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- (ii) Box sextant
- (iii) Pantograph

Unit-III

3. (a) How a theodolite can be used as a dumpy level? 4
(b) Write a detailed note on permanent adjustment of theodolite. 8
(c) Explain various sources of errors in Theodolite. 8
(d) Write short notes on: (any two) 8
(i) Face right and face left observations
(ii) Swinging the telescope
(iii) Transiting the telescope

Unit-IV

4. (a) What is plane table survey? How it is different from

- other methods of survey?

 (b) What is three points problem? Explain by neat sketch by applying of plane table work.

 8
 - (c) Explain merits and demerits of various methods of orientation of plane table work.

8

	How is closing error in a traverse balanced?	8
	Unit-V	
5.	(a) Write the relationship between radius and degree of	4
	curve.	4
	(b) Explain the elements of simple circular curve. Give	
	their relationship.	8
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	(c) What are the elements of compound curve? Explain	8
	with neat sketch.	δ
	(d) Derive intrinsic equation of ideal transition curve.	8
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	(a) What replane mide severy below it is diffreguent one	
	other methods of subsymi	
	(c) Explain ments and demonts of various marbods of	
	show with and a law think work	

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