

TELANGANA STATE PUBLIC SERVICE

COMMISSION

Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

Question Paper Name :	134 Paper Code 29th Nov 2021 Shift 1
Subject Name :	134 Paper Code
Duration :	180
Calculator :	Normal
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required? :	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console? (SA type of questions will be always auto saved) :	No

134 Paper Code

Group Number :	1
Group Id :	881891262
Group Maximum Duration :	0

Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	0
Is this Group for Examiner? :	No
Revisit allowed for group Instructions? :	Yes
Maximum Instruction Time :	0
Minimum Instruction Time :	0
Group Time In :	Minutes

134 Paper Code

Section Id :	881891262
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	1
Number of Questions to be attempted :	1
Section Marks :	0
Display Number Panel :	Yes
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Section Instructions :	
English :	
Absolute	
Sub-Section Number :	1
Sub-Section Id :	881891262

Total No. of Questions: 7]

Total No. of Pages: 2]

November - 2021

**Survey and Settlement Inspector's Test, - Part-II
Town Survey, Theodolite Survey, Trigonometry, Traverse
Computation & Traverse Plotting
(Without Books)**

Time : 3 Hours]

[Marks : 100

- Note : 1) Candidate should attempt SIX Questions subject to alternatives (or) limitations, if any mentioned herein, or in each question. If more are answered, the last extra answers will be ignored.
- 2) Parts of the same question must be answered together and must not be interposed by answer(s) to other question(s).
 - 3) Authorities should be quoted in support of the answers wherever necessary.
 - 4) Question No. 1 is compulsory.
 - 5) Candidate should answer the paper in English only, except language Test or Surveyors Test, which should be answered in the language chosen only. In case of non-compliance, such Answer Script shall be invalidated.

- 1) a) What can we check in a closed traverse compared to an open traverse?
b) What is the major disadvantage of open traverse and where the open traverse is used in surveying?
[2x10=20]
- 2) How does a theodolite work? What are the main components of theodolite? **[16]**
- 3) a) What type of triangle is used to calculate heights and distances?
b) How do you find the missing side of a triangle?
[2x8=16]
- 4) a) A tower is $100\sqrt{3}$ metres high. Find the angle of elevation of its top from a point 100 metres away from its foot?
b) Is circle a polygon? How many degrees is a circle. Explain?
[2x8=16]
- 5) How do you plot a traverse? Discuss the parameters used in traverse computation?
[16]
- 6) What does a city surveyor do? How to check land details with survey number in Hyderabad?
[16]
- 7) Discuss, Angle of elevation, Angle of inclination and Angle of depression with formulas.
[16]

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