

TELANGANA STATE PUBLIC SERVICE COMMISSION

Notations :

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

Question Paper Name :	122 Paper Code 21st May 2022 Shift 2
Subject Name :	122 Paper Code
Duration :	180
Total Marks :	100
Display Marks:	No
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?	Yes
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Show Progress Bar :	No

122 Paper Code

Group Number :	1
Group Id :	881891492
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No
Revisit allowed for group Instructions? :	No
Maximum Instruction Time :	0
Minimum Instruction Time :	0
Group Time In :	Minutes
Navigate To Group Summary From Last Question? :	No
Disable Submit Button During Assessment? :	No

122 Paper Code

Section Id : 881891492
Section Number : 1
Section type : Offline
Mandatory or Optional : Mandatory
Number of Questions : 1
Number of Questions to be attempted : 1
Section Marks : 100
Display Number Panel : Yes
Group All Questions : No
Enable Mark as Answered Mark for Review and Clear Response : Yes
Maximum Instruction Time : 0
Section Instructions :
English :
Absolute
Sub-Section Number : 1
Sub-Section Id : 881891492

**Question Number : 1 Question Id : 88189140092 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator :
None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 100**

Total No. of Questions: 7

May - 2022
Computation Test, (Part - I)
Trigonometry, Geometry, 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) Illustrate with an example how to reduce (or) enlarge an irregular figure by the usage of plotting scale. **[20]**
 - 2) What is the solution of the triangle? Prove along with the sketches. **[16]**
 - 3)
 - a) In a triangle sides are 400 links, 320 links and 660 links. Capture the angles and area of triangle.
 - b) Write down the formula of the areas of a Square, Rectangle, Parallelogram, Trapezium, Triangle **[2x8=16]**
 - 4)
 - a) In a triangle XYZ, $\angle x = 36^{\circ}40'$ and sides y and z are 480 and 360 links respectively. Find out other angles and side measurement.
 - b) How the areas are computing for a FMB and to a tippan? Discuss which method is more relevant and true to value? **[2x8=16]**

- 5) Describe how a traverse data is plotted to a sheet with an example. **[2x8=16]**
- 6) Explain the process to divide a given straight line into any number of equal parts. **[16]**
- 7) Write short notes on the following: **[4x4=16]**
- a) Sine rule
 - b) Computing scale
 - c) Cosine rule
 - d) Pantograph