FIRST GRADE SURVEYOR/HEAD SURVEYOR'S TEST — OCTOBER, 2022

FIRST GRADE SURVEYOR'S TEST — PART – A (PAPER – II)

[Executive Instructions issued for the Survey of Land in Kerala
and the Maintenance of Land Records]

(Without Books)

[Books allowed : — 1. Chamber's Tables.

2. Boileau's Traverse Tables.

3. Scientific Calculator.]

[*Time* : 3 hours

(Maximum marks : 100)

Marks

I   Explain with the help of a diagram how would you refix two missing consecutive travers points C and D, line BC is obstructed by a building.   10

II How would you classify the quality of work of a surveyor in field inspection ? What are the formalities of rectify a bad work ?   10

III What is Pointing out of Boundary (PB) case ? What are the formalities for doing PB case in Taluk Office ?   10

IV The perimeter of a triangle is 288.0 metres and of its two angles is 40° and 60°. Find the sides of triangle and third angle.   10

V   Differentiate closed and open traverse. Explain the different types of adjustment of a closed Traverse.   10

VI A plot consists of a quadrilateral in shape forming two equilateral triangles having one side equal to 28.8 metres. Calculate the area of the plot in Ares ?   10

VII In a triangle PQR, angle PQR = 90°, angle QPR = 48°30′ and side PQ is 480 metres. Find out the other three elements and the area of triangle PQR.   10

Mark

VIII   Set up the traverse given below and compute the area, Bearing of BC = 82°13′ 20″. All the linear measurements are in metres and angle shown degree minute and Second.

D	G	
(175.7)	(100.0)	
105°21′40″	159°59′40″	
C	F	
(201.0)	(169.6)	
165°50′00″	175°45′20″	
B	E	A
(62.9)	(38.7)	(206.2)
101°35′20″	94°39′00″	96°48′00″
A	D	G

25

IX   What is digital survey ?   2

X   What are the abbreviations of the following in connection with digital survey ?

(a) CORS

(b) RTK

(c) ERTS   3

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