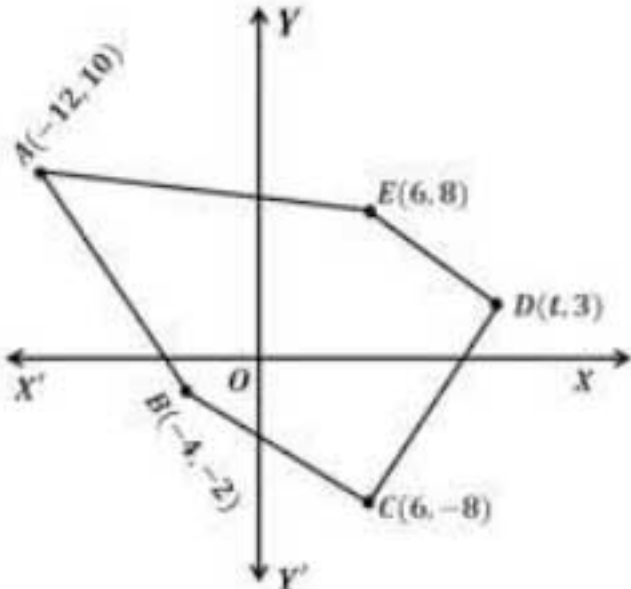# Assignment for SSC Examinees, 2021

Subject: Higher Mathematics   **Subject Code: 126**   **Level: SSC**

Assignment Number, Chapter Number, Chapter Title	Assignment	Learning Outcomes	Guidelines (cues/steps or stages)	Assessment Criterion /Rubric						Com'ts

Assessment Criterion /Rubric

Indicator	Rating Scale				Score
	4	**3**	**2**	**1**	
a			Found the value of angle	Determined the slope	
b	Determined the coordinate of the point D	Determined the area and found the equation.	Determined the area in terms of t.	Wrote the formula of area by the vertices of the pentagon.	
c	Name of ABCF quadrilateral	Found the length of the sides and diagonals.	Found the length of one side or one diagonal.	Drew the quadrilateral ABCF properly.	
d	Determined the equation of the line PQ.	Determined the coordinate of the points P and Q.	Determined the equation of the lines AB and AE.	Determined the equation of the lines AB or AE.	
				Total	

Total marks for this assignment: 14

Assignment Number / Chapter:

01

Chapter 11:

Coordinate Geometry

Assignment:

The solution of the polygon related problem by using coordinate Geometry.

In the figure, A(-12,10), B(-4,-2), C(6,-8), D(t,3), E(6,8) are the vertices of a pentagon and vertices are arranged in anticlockwise order.

Learning Outcomes:

Students will be able to:

- Explain the rectangular Cartesian coordinate system.
- Find the distance between two points.
- Explain the concept of slope (gradient) of a straight line.
- Find the equation of a straight line.
- Determine the area of a triangle using coordinate system.
- Find areas of triangular and quadrangular regions by measuring the lengths of the sides.

Guidelines (cues/steps or stages):

Students will answer the question in the following manner:

a. Determine the angle that line connecting the points B and E form with the positive side of the x-axis.

b. If the area of pentagon ABCDE is 236 square units then determine the coordinate of D.

c. If the coordinate of the point F is (-2,4) then draw the quadrilateral ABCF considering any unit and determine the characteristic of quadrilateral.

d. If the two points P(h,k) and Q(k,h) lies on the lines AB and AE then determine the equation of straight line PQ.

Marks Obtained	Comments
11-14	Excellent
09-10	Very good
07-08	Good
00-06	Needs improvement