NUMERICALS:

Q1. If the Short run total cost function is given as

$TC = 100 + 50Q - 12Q^2 + Q^3$ where Q=output.

Find the AC, AVC, and MC at 10 units of output.

Q2.

If $AC = 200/Y - 6Y + 8Y^2$,where Y=output , find

i. TFC

ii. ii. The point where the AVC is minimum and

iii. MC at Y=4 units

Q3. Given the Total cost function $TC = 4000 + 30X - 12X^2 + X^3$

i. Find the value of output at the Point of Inflection.

ii. At what rate of output Stage II of the production function begins.

Q4. Total cost function $TC = 27\sqrt[3]{X^2}$ find the MC at a output(X) = 27 units.

Q5. Given the MC function i.e. $MC=0.6X^2 -2X +5$, find the Total cost function if the TFC =1000 at X=10 units.

Q6.Complete the following table.

Output	TFC	TVC	TC	MC	AFC	AVC	AC
0			60				
1				100			
2							120
3						80	
4			400				
5		500					