

Ouestion 01 [Marks 5]

Department of Computer Systems Engineering University of Engineering & Technology Peshawar, Pakistan

Subject: Engineering Economics

Marks: 20

Exam: Mid Term Fall 22 Time Allowed: 2 Hours

DIRECTIONS:

Be clear and precise in your answers. Avoid unnecessary details.

You are expected to have brought a calculator and necessary stationery, anything else found in possession would be tantamount to cheating. No sharing of calculators is allowed.

3. Pages are numbers from 1-2. Make sure you have both of them.

I with the proper Economic Environment Terminologies:	[CLO-1]
i- The type of costs that are not paid with cash but occur in documents only a	are
ii- The Life-Cycle costs are least in	phase.
iii- The demand for	is highly elastic.
iv- Elasticity is the % ratio of	A NAME OF THE PARTY OF THE PART
v- The two types of Economics are	
vi- For developing rational alternatives, we must use a consistent	
vii- The four key factors in selecting good engineering economic decisions ar	·e:
ii- The type of cost that is made due to some past decision is	
- The initial breakeven point can be attained earlier by increasing the	

Question 02 [Marks 10]

Mond-Licht Studios estimates that it increases its item's sales volume by decreasing the selling price. The revenue function is given by $aD-bD^2$ where D represents the units of demand of items per month. The fixed costs are estimated to be \$1,145 per month and the total costs for 70% of demands are \$1,647.5. Net sales at 70% utilization are \$2,556. The demand relationship with the price is given by D = 231.0965 - 1.025p, and the price per unit item is \$50.

Determine the volume for maximum profit.

The indirect costs are also known as

ii- Maximum profit for this venture.

Name:		

Registration #__

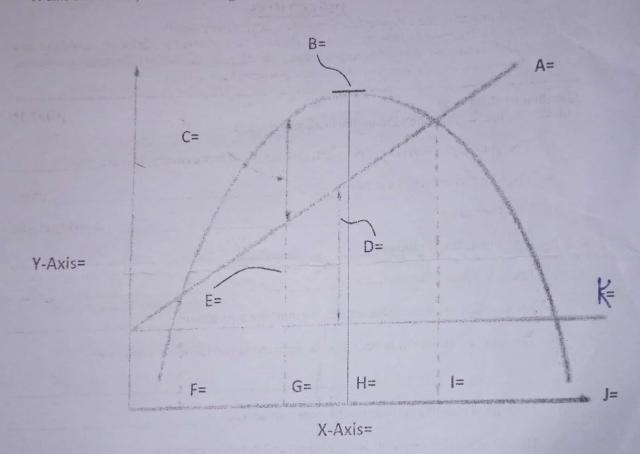
iii- Range of profitable demand.

iv- Maximum total revenue.

Question 03 [Marks 05]

[CLO-1]

Mark/Name the Economic Environment Terminologies and formulas for unknowns (A, B,...., J, X-axis and Y-axis) in the following Total Revenue Function.



Good Luck