Name:

**Enrolment No:** 



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, May 2022** 

Course: Engineering Economics, Estimating & Costing

Program: B. Tech, Civil Engg Course Code: CIVL 3024

Pages: 04

**Instructions: All questions are compulsory** 

Semester: VI Sem Time: 3 Hours Max. Marks: 100

	SECTION A		
S. No.		Marks	CO
Q 1	Briefly explain market and how it helps to stabilise the prices.	4	CO1
Q 2	Explain different component of LPG & one advantage of each one of them for India.	4	CO1
Q 3	Define rate analysis in construction industry & its benefits?	4	CO4
Q 4	Mention one parameter each through which:  1. Supply curve can be shifted to right  2. Demand Curve can be shifted to right	4	CO1
Q 5	Unit of measurement for different items( in MKS):  a. RCC work in foundation  b. Brickwork in Super-structure  wall  c. Dado  Work  d. Plastering- Outside wall  e. Skirting (thickness type & Height specified)  F. Brick work in Partition  g. Shuttering / Form  Work  h. Lime Concrete in foundation	4	CO2
	SECTION B		
Q 6	A Construction project with a 4 year life and a cost of Rs. 225,000 generates revenue of Rs. 48,000 in year 1, Rs. 67,000 in year 2, Rs. 95, 000 in year 3 and Rs. 110,000 in year 4. If the discount rate is 15%, Can be accepted the project? Year Cash Flow DCF @ 15% Present Value	10	CO1
Q 7	Analyses the rate for RCC work in beam with M20 concrete mix with 2% reinforcement excluding centering, shuttering & staging complete.  Or  What are various factors affecting the rate analysis? Define first principle method of rate analysis.	10	CO4
Q 8	Do rate analysis for First class brickwork in super structure with cement	10	CO4

	mortar (1:6). Assume suitable data, if required						
	Description	Wages per day	Utilization per day	Description	Rate (Rs.)		
	He T			ent	350 per bag		
	Ma 90 00 1	M		i i i i i i i i i i i i i i i i i i i	250 per Cuft.		
	Ma 10.0 m 400 per 100 nos.						
	Bhisti	300	0.8 Cum				
				1			
Q 9	Calculate Qua  1. Earth  G.L.  Second step Brick work  First step  Cement concrete	10	CO2				
	1 issume outer	date saita	<i>51 y</i> .	SECTION-0	C		
				'			
Q 10	Calculate quabuilding as sh  1. Earth  2. Lime 0  3. Bricky  4. Brick	20	CO3				

