Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Program: BA(Hons.) Economics (Spz in Energy Eco.)

Subject (Course): Electricity Market

Course Code : ECON3006

No. of page/s: 3

Semester – V Max. Marks: 100 Duration: 3 hrs

SECTION A

		Mar ks	СО
Q 1	Which electricity distribution company in India is having highest AT&C loss?	2	CO1
Q2	Which electricity distribution company in India is having lowest AT&C loss?	2	CO1
Q3	Where the largest wind power farm in India is located?	2	CO1
Q4	Where the first Hydro plant in India is located?	2	CO1
Q5	Name the distribution company of Uttarakhand.	2	CO1
Q6	Name the Transmission Company of Uttarakhand	2	CO1
Q7	Name the regulatory body that looks after electricity regulation of Chandigarh.	2	CO1
Q8	What is the full form of DSM?	2	CO1
Q9	Where the largest solar power plant located in the world?	2	CO1
Q10	Which country first implemented deregulation in Power sector?	2	CO1
	SECTION B		
Q1	Explain Single buyer model, Wholesale and Retail market in electricity?	5	CO2
Q2	What is Distribution Franchise Model?	5	CO2
Q3	What is TAM, DAM and RTM?	5	CO2
Q4	What are the Energy Storage Technologies available in the Market?	5	CO2

							SECT	TION (C						
Q1	From below, mentioned data find out the total energy change by finding out Activity effect, Structural effect and energy intensity change.														
	Y														
				GDP		Ene	rgy Us	se	GI	OP	Е	nergy	Use	10	CO2
	2	2017		150			350		10	00		300			
	2	2018		300			550		25	50		500			
Q2				_			are the	e tools	used b	y poli	cy ma	kers fo	or	10	CO2
Q3	Buyers @Rs. 5 Sellers MW @ or Find th	: A- 10 5, E- 10 : X- 20) Rs. 5.:	0 MW 0 MW 0 MW 5, W-	@Rs.7 @ Rs. @ Rs. 200 M	7.5, B- 4 3.5, Y- W @ R	200 M - 200 M Rs. 6	W @ MW @	Rs. 6.5 Rs. 4,	ta for t	0 MW	@ Rs	. 4.5, `	V- 200 nand.	10	CO3

	Temp	33	35	32	32	32	30	29	25	21	19	20	22		
							SEC	ΓΙΟΝ-	D						
Q1	How Retail market in India can be applied. Explain with one example from any country for your reference.										15	CO4			
Q2	From the following details find out the following value from a Thermal Power plant. a. RoE b. O&M Cost c. Depreciation d. Auxiliary Power Consumption e. Fixed Cost Tariff														
		S no).			Part	iculars	5		Nori	mative				
		1			(Capacit	y of Pl	ant			1				
		2			Capital Cost						Rs. 5.63				
		3			С	Debt: Ed	quity R	atio			70		CO4		
		4				Return	on Equ	iity			15	15			
		5				Interes	t on Lo	an			11				
		6			Intere	est on v	vorkin	g Capita	I		11				
		7			С	Depreci	ation F	ate			5.				
		8		C	Operation and Maintenance cost						13 Lal				
		9			Plant Load Factor (PLF)						80				
		10			Plant Availability Factor						8				
		11			Auxilia	ry Pow	er Con	sumptio	on	6.50%*					
	Showing steps can help you in getting the step marks if the answer is wrong also.														