•	Q.P. (Code: 16	EE23	8										RI	. 6
1	Reg	. No:			los.	100070	a ssurv	in a com	ting the	daum.	2.0.7	Ter Tax			
			1010	uéno s	nti ni e	risiev	e gnis	and ca	(Sola)	o alatu	tion 1	fferen			
		SIDDE	IART	'H IN	STITU	J TE C)F EN	GINI	EERIN	IG & '	ГЕСІ	INOL	OGY:: PUT	TUR	
							(AU	JTON	омо	JS)	i esva	uo on.	il-brockerly.		
	E.	3. I ech l	V Yea	ar II S		ter R	egula ION (IF & S	ECT	RICA	tary E	=xam WER	inations Ju	ly-2021	
					(E	lectric	al and	l Elect	ronics	Engin	eering	g)			
	Time	e: 3 hours	5											Max. N	Aarks: 60
					(Ar	nswer	all Fiv	ve Uni	ts 5 x :	12 = 6	0 Mai	ks)			
								UN	[T-I						
l	a D	raw and	l expl	ain tl	ne ope	ration	of so	odium	vapo	ur lan	np wi	th nea	at diagram a	ind L1	6M
	e	numerate	its ad	lvanta	ges an	d disa	dvanta	iges.							
	b A	lamp ha	wing a	a unif	orm cp	of 10	0 in a	ll dire	ction i	s prov	ided v	with a	reflector wh	ich L2	6M
	d	irects 60 ⁴	% of 1	the lig	ght unit	formly	onto	a circ	ular a	ea of	10m o	diamet	er. The lamp) is	
	h	ung 5m a	bove	the ar	ea. Cal	culate	the il	lumin	ation a	t the c	enter.				
								0	R						
2	a E	xplain w	ith ske	etch tl	ne prin	ciple a	ind op	eratio	n of flu	loresc	ent la	mp.		L3	6M
	b V	Vrite sho	rt note	s on f	lood li	ghting	.							L2	6M
								UNI	T-II						
3	a V	Vhat are t	he dif	ferent	t types	of hea	ting?	Write	advan	tages of	of elec	ctric h	eating.	L1	6M
	b A	low free	quency	y indu	ction f	urnace	e whos	se sec	ondary	volta	ge is r	nainta	ined constan	tat L3	6M
	1	0 volts, t	akes 4	400 k'	W at 0	.6 pf,	when	the he	earth is	s full.	Assur	ning t	he resistance	of	
	tł	ne secono	lary to	o vary	inver	sely a	s the l	height	of the	e charg	ge and	d react	tance to rem	ain	
	C	onstant, ł	neight	up to	which	the he	earth s	hould	be fill	ed to o	obtain	maxiı	num heat.		
								0	R						
ł	a V	Vrite brie	fly ab	out ul	trasoni	c weld	ling a	nd def	fects in	weldi	ng pr	ocess.		L3	6M
	b D	oifferentia	ate be	tween	A.C a	and D	.C we	lding.	Discu	iss abo	out th	e tech	niques used	for L2	6M
	a	rc weldin	ıg.												
								UNI	Г-III						
5	a V	/hat is th	e Clas	ssifica	tion of	Elect	rical [Drives	?					L2	6M
	ьV	/hat are t	he ad	vanta	ges and	l disad	vanta	ges of	Electr	ic driv	res?			L3	6M
								0	R						
5	Wha	at is indi	ividua	l driv	e, gro	up dri	ve an	d mu	lti mo	tor dr	ive?]	Explai	n with suita	ble L3	12M

examples.

Q.P. Code: 16EE238



K16

- 7 a Compare A.C traction with D.C traction with necessary examples.
 b Explain about the different methods of electric braking systems in the case of traction.
 COR
 8 a Discuss the speed-time curves for urban service.
 b A sub urban electric train has a maximum speed of 70 km/hr. The schedule speed
 L3 6M
 - including a station stop of 30 sec in 45 km/hr. If the acceleration is 1.5 km/hr/sec. Find the value of retardation when the average distance between stops is 600 m.

UNIT-V

- 9 a What is the tractive effort for propulsion of a train on level track? L1 6M
 - **b** What is the tractive effort for propulsion of a train up and down a gradient? L1 6M

OR

10 A 100-ton weight train has a rotational inertia of 10%. This train has to be run between L3 12M two stations that are 3 km a part and has an average speed of 50 km/hr. The acceleration and the retardation during braking are 2 kmphps and 3 kmphps, respectively. The percentage gradient between these two stations is 1% and the train is to move up the incline the track resistance is 50 N/ton, then determine: 1. Maximum power at the driving axle. 2. Total energy consumption. 3. Specific energy consumption.

*** END ***

(a) pper trequency induction admice whole secondary vertage is reinformered createries of f0 with, takes 400 kW at 0.6 pl, when the locafits is fail. Assuming the explanation of the secondary to vary inversely as the fielght of the charge and reactance to consinconstant, height to to which the hearth should be filled to obtain reminum heat.

Write frictly about ultrastate variality and defects in welding process. Differentiate between A.C and D.C welding. Discuss about the webuigges used in dre welding.

Q.P.	Code: 20MB9005	R	20
Reg	J. No:		
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUT (AUTONOMOUS)	TUR	
	MBA I Year I Semester Regular Examinations July-2021		
Time	· 3 hours May Ma	rks G	0
Time	SECTION – A	IK3. U	
	(Answer all Five Units $5 \times 10 = 50$ Marks)		
	the best of the state of the st		
1	a What is asymmetric information?	L1	5M
	b "The scope of managerial economics is concerned with micro economics". Discuss.	L3	5 M
	and the prove behavior by generating the behavior \mathbf{OR} , we have below out to be the obtained by		
2	Write about the relationship of managerial economics with other disciplines. UNIT-II	L4	10M
3	a What is Demand forecasting? Explain the various methods.	L3	5M
	b Discuss law of demand with example.	L1	5M
	OR		
4	What is Demand elasticity? And explain factors affecting the elasticity of Demand.	L2	10M
	UNIT-III		
5	Explain production function and its importance in economics. OR	L2	10M
6	a What is Economies of scale? Give a short note with an example.	L2	5M
	b Describe the Iso-quants and Iso-costs with examples. UNIT-IV	L2	5M
7	a Explain Monopoly market with examples.	L3	5M
	b What is Monopolistic Competition Market? Explain its features.	L3	5M
	OR	-	
8	What is Market structure? Explain about pricing practices in market. UNIT-V	L1	10M
9	Define the Macro economics. Explain its importance in managerial economics.	L1	10M
	OR		
10	What is inflation and anti-inflation? Explain the causes and effects of Inflation and anti-inflation.	L1	10M

Q.P. Code: 20MB9005



SECTION – B

(Compulsory Question)

11

$1 \times 10 = 10$ Marks

The freezing cold spell at the beginning of 2010 not only increased demand for road salt, (see the additional case study for chapter 6) but it increased demand for gas in the UK. Usage reached 454 cubic metres; the previous record was 449m set in January 2003. The National Grid which is responsible for energy in the UK issued several warnings in a matter of days that demand could outstrip supply and asked supplier so increase the supply. The National Grid also told major gas users, such as power plants, to reduce demand.

Big generators, such as E.On, have both gas-fired and coal-fired power stations and are able to choose between the two. In total, 27 large gas users were asked to switch - 12 in the East Midlands and 15 in the North West.

Questions:

1. Illustrate the effect of the cold spell on the demand for gas using a demand curve diagram.

2. Illustrate the effect of the National Grid instructing major gas users to reduce their demand.

3. Analyses two other factors that you think influence demand for gas.

4. Do you think demand for gas is price elastic or price inelastic? Explain your reasoning.

*** END ***