Pandit Deendayal Petroleum University

		20BS	SM204	Г			A	Analysis-I		
Teaching Scheme					Examination Scheme					
	т	Р	•	Hrs. / Week	Theory Practical					Total
L			C		MS	ES	IA	LW	LE/Viva	Marks
3	1	0	4	4	25	50	25			100
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ets ai	nd Elem	ients, o	peratior	ns on sets, function	s, <mark>real valued</mark>	functions, equi	valence, least	upper bound	<mark>ls</mark> .	40.11
efini	2 SEQU	JENCE: seauen	Se and se	subsequence, limit	of a sequenc	e, convergent s	equences, div	<mark>eraent seau</mark> e	ences, bounded s	<b>12 Hrs.</b> eauences, monote
eque	nces, op	peration	is on co	nvergent sequence	s, limit inferio	or, limit superio	r, Cauchy sequ	iences.		<u>.</u>
	2 CON					INICINITE CED				10 Urc
onve	S CON	and div	NCE AI	e Series with non	- negative t	erms alternati	<b>ng series</b> con	ditional and	absolute conver	ience conditions
osolu	ite conv	rgenc	e. Conv	ergence and Diverg	ence of Impro	oper Integrals				jonico, contantionic
		Ū		0 0						
NIT	4 IMPF	ROPER	INTEG	RALS						09 Hrs.
)n coi ;02 – ;03 – ;04 – ;05 – ;06 – ;07 – ;07 – ;03 – ;03 – ;03 – ;04 – ;03 – ;04 – ;03 – ;04 – ;05 – ;04 – ;05 – ;05 – ;06 –	mpletio Identify Unders Apply t Analyze Evaluat Develo <b>(REFER</b> V. Rudir . G. Bar . M. Apo . J. Kosr	n of the y wheth tand th he acqu e the co ing the p abstra <b>ENCE I</b> a, Princi tle, Intr ostol, M nala, In	e course er the s e prope lired kni nverger probler act idea: <b>300KS</b> ples of f oductio lathema troduct	, student will be ab equence and series erties of Riemann in owledge of converg- nce and divergence ms of Riemann integ s in constructing rig Mathematical Analysis, i atical Analysis, (Adc ory Mathematical <i>A</i>	le to s are convergent tegrability gence and divent of improper in gration gorous mather ysis, (McGraw (John Wiley ar dison-Wesley Analysis, (WCI	ent or divergen ergence in prac integrals matical proofs. / Hill, 1976) nd Sons, 2000) Publishing Com 3 Company , 19	t tical problems pany, 1974) 95)			
5. V 5. H	V. R. Par I. S. Gas	zynski kill and	and P. V P. P. Na	V. Žipse, Introductio arayanaswami, Elen	on to Mathem nents of Real	natical Analysis, Analysis, (Prent	(McGraw Hill ice Hall, 1988)	Company, 19	<i>)</i> 82)	
				END SEM	ESTER EXAN	VINATION QL	JESTION PAP	ER PATTERN	J	
	Max. N	/larks:	100						Exam Duratio	n: 3 Hrs.
	Part A:	6 quest	ions of 4	4 marks each					24 Marks	
	Part B: (	6 quest	ions of 8	3 marks each					48 Marks	
I	Part C: 2	2 questi	ions of 1	14 marks each					28 Marks	