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						F	Reg. 1	No.:								
					Que	stic	on F	Pap	er (	ode	e : 5	27	79			
			B.I	E./B.Te	ech. Di	EGR	EE E	XAM	INAT	ONS	, APR	IL/MA	AY 20	19.		
							Si	xth S	emest	er						
							Civ	il En	gineer	ing						
		CE	6604	- R/	AILWA	AYS,	AIRP	ORT	S ANI	) HAI	RBOU	R EN	GINE	EERIN	VG	
		*57/							ion 20							
4 1		(Con B.E.	mon Part	to PT0 Time	CE 660 – Four	04 – I rth S	Railw	avs.	Airpoi	ts an	d Har ieerin	bour l g – Re	Engin gulat	eerin	g for ()14)	
	Tim	e: Th	ree h	ours								Ma	ximu	m : 10	00 m	arks
70						A	nswe	r AL	L que	stions						
						PAR'	ТА —	- (10	× 2 =	20 ma	arks)					
	1.				of whe				n its a	idvan	tages	?				
	2.	Illus	strate	the fu	unction	ns of	ballas	st.								
	3.	Diff	erent	iate be	etween	ı Gra	vitati	ional	yard a	and H	ump	yard.				
	4.	Why	sand	hum	p is pr	ovide	ed at t	the er	nd of t	he si	dings.					
	5.	Illus	trate	the ty	pes of	f surv	vey ad	lopte	d for t	he sit	e sele	ction	of an	airpoi	rt.	
	6.	Why	Zoni	ng lav	vs are	neces	ssary	?								
	,7.			angar.												
	8.				y and	why	it is p	provid	led in	an ai	rport	?				
	9.			arbour												
	10.	Wha	it do y	you un	dersta	and b	y the	term	dred	ging?						
									13 =							
	11.	(a)	Des of a	cribe t new r	the var	rious y proj	impo ject.	ortant	t surv	eys a	dopte	d for t	the tr	ack a	lignn	nent
								0	r							
		(b)	(i)	Expl a rai	lain th ilway t	e circ track	cumst	tance	s in w	hich !	Equili	brium	cant	is pr	ovide	d in (5)
			(ii)	Wha	t are t	the re	equire	ement	ts of a	n idea	al per	maner	nt way	у.		(8)
								2 1								

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12.	(a)	What are the operations and methods involved in driving a tunnel in rocks.	
		Or	
	(b)	What are the types of marshalling yard? Also mention the equipments available in station yards.	
13.	(a)	Illustrate the factors affecting the choice of selection of site for an Airport.	
		Or	
	(b)	Compare the various aircraft parking systems along with its advantages and disadvantages.	
14.	(a)	(i) The data for the hottest month of an year in the year of maximum daily temperature is 43.72°C and the mean of average daily temperature is 26.32°C, Then what is the airport reference temperature.	
		(ii) The Turning radius for a Taxiway is to be designed for operating aircraft at A type airport having the following character.	
		1. Subsonic aircraft having wheel base = 17.70m	
		2. Tread of main landing gear = 6.62	
		3. Turning speed = 40kmph	
		4. Co-efficient of friction between tyre and pavement = 0.13 (9)	
		Or	
	(b)	Runway length required for landing at sea level in standard atmospheric condition is 2100m. Runway length required for takeoff at a level site at sea level in standard atmospheric condition is 2500m Aerodrome elevation is 200m and reference temperature is 24°C. Temperature in the standard atmosphere for 200m is 15°C and runway slope is 0.5%. Determine the length of the runway after applying correction to runway length.	
15.	(a)	Explain about the following terms in detail.	
		(i) Piers, Quays and Docks (4)	
		(ii) Wharfs (4)	
		(iii) Breakwaters (5)	
		Or	
	(b)	(i) What are the requirements of a good harbour? (6)	
		(ii) Explain in detail about the classification of harbours. (7)	
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		P	ART C — (1 ×	15 = 15 ma	rks)		
16. (a	classe	ate the cap es of aircra ation factor	ft with par	ates which ticulars as	are exclusively us shown below. A	sed by three ssume gate	
AIRCI	RAFT	GATE GROUP	NO. OF GATES	MIX(%)	AVERAGE OCC TIME IN MII	CUPANCY	
A	1	I	2	15	25		
E	3	II	4	35	45		
C		III	6	50	60		
(b)	Evalu	ate the equi	librium spee	Or d and design	n the cant to be proval trains running	rovided on a	
	as foll	lows.				on the line	
		100	of trains V	50	npn		
			12	60			
			8	70			
			3	80			
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