

	PÖ	PE	Fig		D17	
	HARLAL NEH	RU TECHNOLO emester Examina				
Time: 3 hou		SURVE (Common to		**** 4*	2016 Marks: 75	
Part A	A is compulsory of B consists of	ontains two parts A which carries 25 m. 5 Units Answer 10 marks and may	arks. Answer al any one ful	I question fro	art A. m each unit.	
		PART	'-A			
1.a) State	the principles of	surveving			(25 Marks) [2]	
(b) List o (c) Differ d) Defin e) State	[2] [3] [3] [2]	;				
f) List on g) Define h)::List on i):List on	at the formulae for Transiting and so it the temporary a at the methods for	or computing the version of the version of the telesc adjustments of a the retting out simple tadia and tangential	ope in theodoli eodolite. e curve by chai	n and tape.	[3] [2] [3] [3] [2] [3]	<u>[</u>
		Part-l	3			
2. Explai	n about classifica	ition of sürveying.			(50 Marks)	
		erved in a compas			raction. [10]	
P6	Line AB BC CD DE EA	Fore bearing 68° 15' 148° 45' 224° 30' 217° 15' 327° 45'	Back bearin .248° 15' .326° 15' 46° 00' 38° 15' 147° 45'	g : (P6	P
:staff on 2.885, 3 a startii	a confinuously 3.380, 1.055, 1.86 ng point was 80.7	ve readings were to sloping ground at 60, 2.265, 3.540, 0 50 m.	30 m intervals .835, 0.945, 1.5	: 0.680,-1.455, 530 and 2.250 n	1.855, 2.330,	 =:
b) Deter	mine the gradier	nt of the line joining on touring and exp	g the first and l	ast points.	[5+5] [: ; [10]	<u></u> [□]
P6			PE,	Pé	P6	



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	P6		***** * * *	,	X X X X	X * * * * * * * * * * * * * * * * * * *	*****		EMENT NO.
5	The following offsets (0.0 m: 2.72, 3.46, 5.23) included between the ch	, 6.80, 4.86, 3.	35, 3.00,	2.50, ar	nd 1.60	at regu m. Dete	lar inter rmine th	vals of ne area	
-) Mid-ordinate rule) Trapezoidal rule and) Simpson's rule.)R		<u></u>		[4+3	+3]	
7. A	road at the formation ave a constant R.L. of	level is 6 m v	vide and	has a sid	de slope oss the (of 2:1. centre li	The roa	nd is to e road.	å.
Γ., Επ. ::::	The following observati	ons were made	# ##X7 # ## X # # # # # # # # # # # # #	***	X X + + + + + + + + + + + + + + + + + +	**************************************	× • • • • • • • • • • • • • • • • • • •	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,
	Chainage (m) Surface level along road	centre line of	204.6	20 203.0	200.8	201.6	202.0	200.2	
	Estimate the volume of	earth work.	* £ X 7 X	****	*****	*** **** **** ****	***** ****	::[10]	* * * * * * * * * * * * * * * * * * *
8. L	ist out the methods fo etail.	r measuring ho	orizontal :	angle an	d expla	in any t	wo meth	nods in [10]	
iii ii s a re it	The observations were tations P and Q, 100 ngles of elevation of A cading upon the BM (Instrument was at P and ne foot B of the flag if	m apart, the st A at P and Q w RL = 311.29 m I Q, the telesco	ations.P vere 30 ⁰ () were, re	and Q 05' and espectiv	being in 17 ⁰ 52′ ely, 2.69	rëspecti 90 and 3	e with vely. Th 3.815 wh	A in the nen the	
10	The following are the corresponding staff inte	distances, of the control of the con	ne staff j	eometric	consta	nts.	iment a	nd the	
1	D (m) 20 S (m) 0.195 The chainage of the into 680.0 m. If the radius of the into 680.0 m.	ersection of two	OR Ostraight	s having lculate t	g the de	197 :::: flection	angle of	;;;;;; f 50° is	
a) c)	Tangent distance Length of the long ch	ord and d) Apex di	stance.		0.11/0/C K	, ,	[10]	*****
	F6)	O00		M=A	31.W50 →	,		
PE	P6	F6	<u>;</u> ;;;;		Į.	ë:			Pi
	P6	PE		*** ***	:	Ë	A S S S S S S S S S S S S S S S S S S S		