***	FE		PE			D15	
	Code No: 123A					K15	
			RU TECHNOLOG				
	В.Тес	h II Year I S	emester Examinat	The state of the s			
** **_	**** *** * * * * * * * * *	****	SURVEY	KING Cricoria	****	X**X	****
** *	Time: 3 hours	î îř	icoming to		Max	k. Marks: 75	X X
-					11262	11141 AST 72	
**			ntains two parts A				
	Part A is	compulsory v	which carries 25 ma	arks. Answer al	ll questions in I	Part A.	
· ·,		consists of	5 UnitsAnswer	any one ful	ll question fro	om each unit.	;*** <u>:</u>
	; ·ach que	stion čames 1	0 marks and may l	iave a; p; c as s	sub questions.	*****	X X
			PART	-A			
						(25 Marks)	
		principles of s	•			[2]	
	b) -List out t	he tape correc	tions		*****	:::;::[3]	****
•			imple levelling and ontal equivalent ar			[2]	:
			Simpson's rule.	id Contour grae	dieni.	[3] [2]	
			or computing the vo	lumes		[3]	
	g) Define Tr	ansiting and s	winging the telesco	ope in theodoli	te surveying.	[2]	
	h): :::List out th	ne temporary a	adjustments of a the	eodolite.	KRON AN F & A KNON AN	<u> </u>	**** * * * * * * *
			r setting out simple			: :[2]	; :
	j) Differenti	ate between si	tadia and tangentia	I methods of ta	icheometry.	[3]	
-			Part-B	₹			
						(50 Marks)	
	2. Explain at	oout classifica	tion of surveying. OR	****	·····	[10]	****
						* ***	; ,
	3. The follow	ving were obs	erved in a compass	s traverse. Con	rect for local at	traction. [10]	
		Line	Fore bearing	Back bearin	<del></del> 1		
		<del></del>		Duck ocarri	or		
		AB	68° 15′	248° 15′			
	****	AB BC	68 <sup>0</sup> 15'	248 <sup>0</sup> 15'			Pi
	FG		224 <sup>0</sup> 30'	248 <sup>0</sup> 15' 326 <sup>0</sup> 15' 46 <sup>0</sup> 00'	ig 	P6	Pi
	P6	BC CD DE	224 <sup>0</sup> 30' 217 <sup>0</sup> 15'	248 <sup>0</sup> 15' 326 <sup>0</sup> 15' 46 <sup>0</sup> 00' 38 <sup>0</sup> 15'		P6	
	P6	BC CD	224 <sup>0</sup> 30'	248 <sup>0</sup> 15' 326 <sup>0</sup> 15' 46 <sup>0</sup> 00'		P6	P
		BC CD DE EA	148 <sup>0</sup> .45' 224 <sup>0</sup> 30' 217 <sup>0</sup> 15' 327 <sup>0</sup> 45'	248 <sup>0</sup> 15' 326 <sup>0</sup> 15' 46 <sup>0</sup> 00' 38 <sup>0</sup> 15' 147 <sup>0</sup> 45'			Pţ
	4.;···: .···The follow	BC CD DE EA	148 <sup>0</sup> .45'   224 <sup>0</sup> 30'   217 <sup>0</sup> 15'   327 <sup>0</sup> 45'   ve readings were to	248° 15′ 326° 15′ 46° 00′ 38° 15′ 147° 45′ aken with a du	ımpy·level and	4 m leyelling	Pi
	4 The follow	BC CD DE EA	148 <sup>u</sup> .45'   224 <sup>0</sup> 30'   217 <sup>0</sup> 15'   327 <sup>0</sup> 45'   ve readings were to   sloping ground at 3	248° 15′ 326° 15′ 46° 00′ 38° 15′ 147° 45′ aken with a du	umpy level and: 0.680,-1.455,	4 m levelling 1.855, 2.330,	
	4The followstaff on a c 2.885, 3.38	BC CD DE EA	224 <sup>0</sup> 30' 217 <sup>0</sup> 15' 327 <sup>0</sup> 45' ve readings were to sloping ground at 360, 2.265, 3.540, 0.	248° 15′ 326° 15′ 46° 00′ 38° 15′ 147° 45′ aken with a du	umpy level and: 0.680,-1.455,	4 m levelling 1.855, 2.330,	
	4 The follow staff on a constant of a starting part of a constant	DE EA  Ving consecution continuously solution was 80.7 at reduction of	148 <sup>u</sup> .45'   224 <sup>u</sup> 30'   217 <sup>u</sup> 15'   327 <sup>u</sup> 45'   ve readings were to   sloping ground at 3   50, 2.265, 3.540, 0.50 m.	248° 15′ 326° 15′ 46° 00′ 38° 15′ 147° 45′ aken with a du 30 m intervals: 835, 0.945, 1.5′	impy-level and: 0.680,-1.455, 530 and 2.250 i	4 m levelling 1.855, 2.330, n. the R.L. of	Pi
	4 The follow staff on a constant of a starting part of a constant	DE EA  Ving consecution continuously solution was 80.7 at reduction of	148 <sup>u</sup> .45' 224 <sup>0</sup> 30' 217 <sup>0</sup> 15' 327 <sup>0</sup> 45' ve readings were to sloping ground at 360, 2.265, 3.540, 0.50 m. Theights by the collect of the line joining	248° 15′ 326° 15′ 46° 00′ 38° 15′ 147° 45′ aken with a du 30 mintervals 835, 0.945, 1.5 limation methology the first and l	impy-level and: 0.680,-1.455, 530 and 2.250 i	4 m leyelling 1.855, 2.330, n. the R.L. of	Pi
	4 The follow staff on a constant on a	DE EA  Ving consecution of the gradien in the gradi	148 <sup>u</sup> .45'   224 <sup>0</sup> 30'   217 <sup>0</sup> 15'   327 <sup>0</sup> 45'   ve readings were to sloping ground at 350, 2.265, 3.540, 0.50 m. Theights by the collect of the line joining with the order or the line joining or the l	248° 15′ 326° 15′ 46° 00′ 38° 15′ 147° 45′ aken with a du 30 m intervals 835, 0.945, 1.5 limation methology the first and l	impy-level and: 0.680,-1.455, 530 and 2.250 rod. ast points.	4 m leyelling 1.855, 2.330, n. the R.L. of	
-	4 The follow staff on a constant on a	DE EA  Ving consecution of the gradien in the gradi	148 <sup>u</sup> .45' 224 <sup>0</sup> 30' 217 <sup>0</sup> 15' 327 <sup>0</sup> 45' ve readings were to sloping ground at 360, 2.265, 3.540, 0.50 m. Theights by the collect of the line joining	248° 15′ 326° 15′ 46° 00′ 38° 15′ 147° 45′ aken with a du 30 m intervals 835, 0.945, 1.5 limation methology the first and l	impy-level and: 0.680,-1.455, 530 and 2.250 rod. ast points.	4 m levelling 1.855, 2.330, n. the R.L. of	Pi
	4 The follow staff on a constant on a	DE EA  Ving consecution of the gradien in the gradi	148 <sup>u</sup> .45'   224 <sup>0</sup> 30'   217 <sup>0</sup> 15'   327 <sup>0</sup> 45'   ve readings were to sloping ground at 350, 2.265, 3.540, 0.50 m. Theights by the collect of the line joining with the order or the line joining or the l	248° 15′ 326° 15′ 46° 00′ 38° 15′ 147° 45′ aken with a du 30 m intervals 835, 0.945, 1.5 limation methology the first and l	impy-level and: 0.680,-1.455, 530 and 2.250 rod. ast points.	4 m leyelling 1.855, 2.330, n. the R.L. of	Pi Pi
	4 The follow staff on a constant on a	DE EA  Ving consecution of the gradien in the gradi	148 <sup>u</sup> .45'   224 <sup>0</sup> 30'   217 <sup>0</sup> 15'   327 <sup>0</sup> 45'   ve readings were to sloping ground at 350, 2.265, 3.540, 0.50 m. Theights by the collect of the line joining with the order or the line joining or the l	248° 15′ 326° 15′ 46° 00′ 38° 15′ 147° 45′ aken with a du 30 m intervals 835, 0.945, 1.5 limation methology the first and l	impy-level and: 0.680,-1.455, 530 and 2.250 rod. ast points.	4 m leyelling 1.855, 2.330, n. the R.L. of	Pi
· · · · · · · · · · · · · · · · · · ·	4 The follow staff on a constant on a	DE EA  Ving consecution of the gradien in the gradi	148 <sup>u</sup> .45'   224 <sup>0</sup> 30'   217 <sup>0</sup> 15'   327 <sup>0</sup> 45'   ve readings were to sloping ground at 350, 2.265, 3.540, 0.50 m. Theights by the collect of the line joining with the order or the line joining or the l	248° 15′ 326° 15′ 46° 00′ 38° 15′ 147° 45′ aken with a du 30 m intervals 835, 0.945, 1.5 limation methology the first and l	impy-level and: 0.680,-1.455, 530 and 2.250 rod. ast points.	4 m leyelling 1.855, 2.330, n. the R.L. of	

****	; F6			<b></b>	PE	EMPX F N N M N N M N N N N E M N
6.	The following offsets we 5.0 m: 2.72, 3.46, 5.23, 0 included between the cha	5.80, 4.86, 3.3	35, 3.00, 2.50, a	and 1.60 m. Deter	ar intervals of mine the area	
	a) Mid-ordinate rule b) Trapezoidal rule and c) Simpson's rule.	(	PE OR		[4+3+3]	m'i
7.	A road at the formation I have a constant R.L. of 2	evel is 6 m v	vide and has a s	ide slope of 2:1.	The road is to ne of the road.	å.
****	The following observatio	ns were made	AN A	**************************************	X ***	*****
,	Chainage (m) Surface level along of road	entre line of	0 20 204.6 203.0	40 60 200.8 201.6	80     100       202.0     200.2	
	Estimate the volume of ea	arth work.	****		:::::::::::::::::::::::::::::::::::::::	********
8.	List out the methods for detail.	(	)R		[10]	
9.	The observations were meastations P and Q, 100 meangles of elevation of A reading upon the BM (RI instrument was at P and O the foot B of the flag if A	apart, the st at P and Q w L = 311.29  m Q, the telesco	ations.P <sub>i</sub> and Q vere 30 <sup>0</sup> 05' and ) were, respecti	being in the line 170 52' respectively, 2.690 and 3	vely. The staff .815 when the	P1
10	The following are the d corresponding staff interv	istances of thats. Calculate	ne staff position the tacheometr	n from the instru ic constants.	ment and the	
	D (m) 20 S (m) 0.195	50 0.495	100 0.997	120 1.197		
11.	The chainage of the inter 1680.0 m. If the radius of a) Tangent distance c) Length of the long cho	section of two	o straights having 150 m, calculate Length of the contraction (Apex distance)	the following:	[10]	Fi
* * * * * * * * * * * * * * * * * * *	PE	00	000-	d= 191.0050		* * * * * * * * * * * * * * * * * * *
				<b>∂</b> →		
	. P6	P6	PE	P6	P6	Pi
N N N N N N N N N N N N N N N N N N N	. PS		PE	PE	P6	<b>-</b>