

GIET MAIN CAMPUS AUTONOMOUS GUNUPUR – 765022

RN19001863

Registration No:							
Total Number of Pages: 2			AR-1	8			B.TECH

B.TECH 3rd SEMESTER EXAMINATIONS, NOV/DEC 2019 **BCEPC3030 SURVEYING-I**

Civil Engineering

Time: 3 Hours Maximum: 100 Marks

Answer ALL Questions

The figures in the right hand margin indicate marks. PART – A: (Multiple Choice Questions) 10 x 2=20 Mark

	PART – A: (Multiple Choice Questions) 10 x 2=20 Mark	
Q.1	. Answer <u>All</u> Questions	
a	Principle of surveying followed to prevent accumulation of errors is	CO1PO1
	a) To work from whole to the part b) To work from part to whole	
	c) None of the above d) both a) and b) above	
b	The curvature of the earth's surface is taken into account only if the extent of survey is more	CO1PO1
	than a) 80 sq km b) 500 sq km c) 260 sq km d) 1500 sq km	
c	Geodetic survey is different from plane surveying because of	CO1PO1
	a) Very large area is covered b) The curvature of the earth is considered	
	c) The topography is bad d) The large difference of elevation	
d	A triangle is said to be well conditioned if none of its angles is less than:	CO2PO1
	a) 20° b) 30° c) 45° d) 60°	002101
e	The tie line is run through the survey to	CO2PO1
C	a) Take off sets for detailed surveying b) Take details of nearby objects	CO21 O1
	c) Check accuracy of work d) None of the above	
f	The box of prismatic compass is made of	CO2PO1
1	a) Steel b) Brass c) Iron d) Aluminium	CO21 O1
σ	Magnetic declination at a point	CO3PO1
g	a) Does not change with time b) Never remains constant	CO31 O1
h		CO3PO1
h	A prismatic compass is used to determine	COSPO1
	a) Dip at a place b) Declination of a line	
	c) Whole circle bearing of a line d) Quadrangle bearing of a line	CO (DO 1
i	A bearing noted 45 ⁰ NE represents	CO4PO1
	a) Quadrantal system b) Whole circle system	
	c) Reduced bearing system d)) None of the above	GO 1701
j	The capability of a telescope to produce sharp images is known as its	CO4PO1
	a) Magnifying power b) Sensitivity c) Aperture d) Resolving power	
	PART – B: (Short Answer Questions) 10X2=20 Marks	
a	Q.2. Answer <u>ALL</u> questions Define odometer.	CO1PO1
b	What is Passometer.	CO1PO1
c	Define Pedometer	CO1PO1
d	What is Perambulator	CO2PO1
e	Define Trough Compass	CO2PO1
f	What is Mean sea level	CO3PO1
g	Define Bench mark	CO3PO1



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	ine of collimation		CO4PO1	
i Define Co	ontour line		CO4PO1	
j What is C	Contour intervals		CO4PO1	
	PART – C: (Long Answer Questions) 4X15=60 Marks			
Answe	r <u>ALL</u> questions			
Q.3				
a Write down j	points to be remembered for Selection of survey stations	8	CO1PO2	
b Define Offse	ets. What are the types of offsets?	7	CO1PO2	
	OR			
c Explain abou	at Compass surveying and its principle	7	CO1PO2	
d Write down t	d Write down the difference between surveyor and prismatic compass			
Q.4				
	various methods of levelling	7	CO2PO2	
b What are the	advantages claimed by the use of level	8	CO2PO2	
	OR			
c The followin	ng reading were taken with a level and a 4 m staff. Draw up a level book page		CO2PO2	
and reduce th	ne levels by			
i) Rise and fa	all method	8		
d ii) By height	of instrument method		CO2PO2	
0.683 BM(51	1.362 m), 1.109, 1.838, 3.399, (3.877 and 0451) CP,			
1.405,1.896,2	2.676,3.478,(3.999 and 1.834) CP, 0.649,1.706	7		
Q.5		,		
	Characteristics of contours?	8	CO3PO2	
b Note down C	Characteristics of contours lines	7	CO3PO2	
	OR			
c Explain abo	out direct method of contouring	8	CO3PO2	
	uses of contour maps	7	CO3PO2	
Q.6				
-	at the significance of digital theodolite	8	CO4PO2	
b Write short n	note on total station	7	CO4PO2	
o E1-1411	OR	0	CO4PO2	
	importance of remote sensing	8 7	CO4PO2 CO4PO2	
d Write short n	==0==	/	CO4PO2	