التاريخ ١٤٣٧/١/٩ مدة الامتحان ساعتان

Answer ALL the following Questions: I. Chose the correct answer(15 Marks) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

1	Z	3	4	5 0	/	ð	9 1		12	13	14 15	10	17	18	19 20	21	22	23	24	25	20	27	28 4	29 30
1. a)	1. Numerical and pictorial information about variables are called a) analytical statisticsd) Statistical Informationa) analytical statisticsb) descriptive statisticsc) Inferential Statisticsd) Statistical Information																							
2.	2. The entire group of interest for a statistical conclusion is called the																							
<u>a)</u> 3	<u>a) Data</u> <u>b) information</u> <u>c) Population</u> <u>d) Sample</u>													ample										
3. a)	a) categorical and descriptive b) Dichotomic and Polynomic c) Attribute and Quantitative d) Discrete and Continuous																							
4.	4. The science of statistics includes which of the following																							
<u>a)(</u>	Drga	nizir	ng da	ita		b)Presei	nting	data	v	v	c)ĭ	nter	preti	ng data						d)/	All o	f the a	above
5.	5. A qualitative variable already ample bils not numeric collas only two possible outcomosed All of the above are corrected and the showe are																							
<u>a)</u> r	a)reters to arranged sample b)Is not numeric c)Has only two possible outcomesd)All of the above are correc												correct											
6. a)ŀ	6. The ordinal scale of measurement a)Has a meaningful zero point b)Is based on ranks c)Cannot assume negative values d)All of the above																							
7.	7. Which of the following are examples of continuous variables																							
<u>a)</u> E	a)Birth weight of babies b)Distance between two cities c)Age of the students in a class d)All of the above											above												
8.	T	he r	atio	scale of	of me	easu	remen	t																
a)(c)F	Jsua Tas a	illy il a me	nvoiv	ies rank oful zero	ing Dipoi	nt		b)C d)Is	anno usu	t as: allv l	sume ne based or	gativ 1 cou	'e va Intin	iues a										
<u>9.</u>	W	/hic	h of	the foll	owin	ng si	tateme	nts is	s tru	e re	garding	a s	amp	le?										
<u>a)</u> p	bart	of po	opuľa	tion		b)lt i	nust co	ontain	five	obs	ervation	s	ć)	lt is	to desci	riptiv	e sta	atistic	csd)	All of	f the	abo	ve are	<u>corre</u> ct
10). W	/hic	h of	the foll	owir	ng si	tateme	nts is	s tru	e re	garding	g a p	ори	latic	on?									_
a)	mus	t be	a lar	ge numt	per o	f val	Ues Nt mus	t rofo	r to r	oon	lo		b)C	ollec	tion rela	ited i	ndiv	idual	IS, 0	bject	s, or	mea	surer	nents
CJNORE OF THE ABOVE OJIT MUST FEFER TO PEOPLE																								
11 po	pul	atio	n?	WIII L		iven		<i>J</i> U <i>Si</i>	nuer	us j				iuss			11-9	lura	UI	uver	suy.	**1	iai i	5 1110
a)l	Ĵmm	n Al-	Qura	Univers	ity S	tude	nts	b) Fa	culty	of S	cience s	stude	ents	C)New Cl	ass s	tude	ents	d)t	he 10	0 se	lecte	d stu	dents
12	2. A	me	an is	s known	as a	a sta	atistic	if it i.	s coi	при	ted fror	n the	2											
<u>a)</u>	popu	<u>latic</u>	on da	ta	<i>c</i>	b)param	eter				C):	statis	stica	linform	ation						d)s	ample	e data
13 a)s	s and	orra 1 a	ect e.	xample	s of	par h	ameter	rs are o	2			c)	u ani	4 6							d)noi	ne o	f the a	hove
14	. w	ere	Fift	v emplo	wee	s ra	ndoml	v sel	ecte	d fre	om a la	rge	coll	ectic	on of e	mplo	vee	in a	i co	mpa	nv's	hea	idaua	irter.
th	e Fi	fty e	empl	oyees i.	s ref	erre	ed to a	s the		J		. 0 .			Je og el	····	<i>.</i>							
a)S	Sam	ple	•	2	0	b)Param	eters				c)	ρορι	Ilatio	n								d)Stat	istics
15	5. 7	The	best	central	ten	deno	cy mea	sure	for	nom	inal da	ta iş											n	
<u>a)r</u>	near	<u>)</u>)	- f 41	1		b)media	n	1:	:-		C)	mod	e									d)var	lance
10 a)ł). (1850)ne d on	oj in Ithe I	<i>le aava</i> nosition	niag	<i>eou</i> h	<i>s oj in</i> Jegual	e mea to onl	lv on	is e da	ta memh	erc)	not	affec	ted hv c	nutlie	rs	d) th	ne h	alanc	e of	the d	listrih	ution
17	<u>.</u> 7.7	The i		ilation'	s sta	nda	rd dev	iatio	n is	<u>svm</u>	bolized	bv	1101		icu by c	Junio	15	u) th		ululic				ation
a)S	SD		r · P ·			b)S			-)		(C)	σ											d)PS
18	3. <i>C</i>	Dutl	iers	have th	e gr	eate	est effe	ct on	the															
<u>a)r</u>	near	<u>ן</u>			0	<u>b</u>)mode	0	1		1 1	<u> </u>	medi	an	.1								d)qua	<u>rtiles</u>
19 2)M). 1 Moor	the.	squa	re root	of t	he a	Warian	e of ti	he se	quar	ed devi	atio	ns fi Stan	rom dard	the me	an is	2				۰٬۸۱	oraa		iation
<u>a)</u> 20	$\frac{1}{1}$	I The	simn	lest (a	1d 10	u ast	yvai iai useful	med	sura	of	variahi	U). litv i	Stall	<u>uaiu</u> 0	Deviali					(JAV	ay	e Dev	Idlion
20 a)\	, <i>i</i> varia	nce	simp	iesi (ui	iu ie	usi b)Stand	ard De	eviat	ion	variadi	، ریں (C)	mod	2 2									d)	range
21	. It	is p	ossi	ble tha	t a d	listr	ibutior	i of s	core	s co	uld hav	e m	ore	than	one:									<u> </u>
<u>a)</u> r	nod	e Î				b)varian	ce				c)	Rang	е							d))Lov	/er Qu	uartile
22	2. 7	To c	ompi	ute the	vari	anc	e of a s	samp	le, ti	he si	um of th	he sq	uar	ed d	leviatio	ns is	div	rided	l by	,				d)N 1
23		live	n the	follow	ina	u data	ijii i s <i>ot</i> m	hat i	s the	val	ue of th	0 m	n-1 odia	n91	243	618	02	57	1					
_a)2	<u>2</u>		- 1110	<i>j01101</i>		b) <u>4.5</u>	int l	5 1116			C)/	4.7		275	<u> </u>			1					d)10
24	. (Give	n the	e follow	ving	set	of date	ı, wh	at is	the	range?	[][]	2 23	34 :	54 21 7	96	7]							n = -
<u>a)</u> 5	50	1	. •	1	C	<u>b</u>	<u>)56</u>			<u>, , , , , , , , , , , , , , , , , , , </u>		<u>c)</u> !	58	0.0	10 10	1								d)59
23	v. v	vnat	is th	ne meai	n of	tne j	Jouow	ıng d	ata j	12, 3), <i>3</i> , 4, (), /,	ð, ö	э, У,	10, 12	1								

a)6	b)6.667	c)5.4	37		d)6.54545						
26. In a distribution that is left skewed											
a) mean is larger than the me	the median										
c)mean is equal to the mediar	nedian										
27. Ogives is used to gra	phically represent										
a)Frequency Distribution	d)Cumulative Fre	quency Distribution									
28. sturge's rule is used to											
a) width of a class b) upper and lower limits of a class c) number of classes d) frequency for each class											
29. width of the class in a frequency table is based on											
a)the range only	b)Number of classes	only c)rar	ige and number of	classes only	d)all of the above						
30. stem and leaf plot is	used to										
a)summarize the data	b)preserve and reduc	ce the data c)rep	present the data gra	aphically	d)all of the above						
II. Fill in the spaces (5 Marks)										
(1) is the average of the squa	red deviations from the	e mean.									
Because it uses every score	most common										
measure of variability.											
Statistical Measures based	on samples referred	to as (3) while	Statistical Measu	ires based on							
populations referred to as (4))										
For the data set 12,7,8,4,9,5,6											
If the distribution is skewed, t											
If the distribution is symmetri											
If the mean for 1, 2, 4, 5, 6, 6,	8)										
Ogives is used to represent the											
Pie chart is hest used to repro											
III. Convert into stem	74-70-95-75-7	0-68-65-40-65									

Then, Draw the box plot for these data (8 Marks) **IV. Determine the correct and false statements (5 Marks)**

1.	1. Mode is affected by the extreme values														
2.	Mean is the best central tendency measurement for skewed distribution														
3.	Median is the best central tendency measurement for skewed distribution														
4.	4. We can not find the frequency distribution for Nominal variables														
5.	5. Relative frequency distribution is used to compare data of the same size														
6.	6. stem and leaf plot is used to represent the data graphically														
7.	7. bar chart and histogram give exactly the same information														
8.	8. Hypothesis testing is part of inferential statistic														
9.	9. The interval level of measurement has a meaningful zero														
10.	10. In random phenomena we do not know all the outcome														
V. Given The following data															
34	48	70	63	52	52	35	50	37	43	53	43	52	44	42	
31	36	48	43	26	58	62	49	34	48	53	39	45	34	59	
34	66	40	59	36	41	35	36	62	34	38	28	43	50	30	
	50		- /	- 0			- 0			- 0				- 0	

construct the Frequency Distribution Table using 6 classes,
 Draw a Histogram to represent the distribution,
 Draw an Ogive to represent the distribution.