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	Choose the one or the one or the original simple of size <i>N</i> relative frequents and the sampling normal simple	ability dist from a poj	tribution of v	values of a	statistic	resulting f	rom selecti	ng all pos	
	ou obtained a s hematics test c worse than av	of $z = -0.5$,	then you did			as $z = 0.0$ a	and a stand	ard score o	on a

- b) relatively better on the math test
- c) relatively better on the history test
- d) better than average on both tests
- _____3. If you wish to increase the confidence level for the estimation of a parameter, then the ______.
- a) variance must be increased
- b) sample must be smaller
- c) confidence interval will get larger
- d) confidence interval will get smaller

<u>4.</u> The probability of correctly accepting H_1 with	when H_1 is true is provided by
---	-----------------------------------

- a) β
- b) α
- c) 1 β
- d) 1 α
- _____5. If the results of an experiment using a one-factor between-subjects analysis of variance were summarized as F(2,12) = 2.24, p > .05, then you know that the experiment used ______ subjects and the *F*obs was ______.
- a) 12; nonsignificant
- b) 15; statistically significant
- c) 15; nonsignificant

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d)			12; sta	tistica	ally sig	nifica	ant										
	6.	Whe	n the r	neasu	re of c	entral	tende	ency is	the m	ediar	ı, whic	h of the	follow	ving is a	n appro	opriat	e
			sure of		bility?									-		-	
a)			Range														
b)			Variar Stando		viation												
c) d)			All the			L											
	7	T 1		41	•				- 4			41		.1!	4141	1	1
	/.				rd erro		in the	popul	ation a	ind th	ie	ti	ie samj	ple size,	then t	ne larg	ger the
a)			less; la			1.											
b)			more;	-	•												
c)			more;	small	er												
d)			less; si	malle	r												
	8.	The	error in	n estir	nating	a pop	oulatic	on mea	an fron	n a sa	mple i	mean is	called		erro	or.	
a)			sampli		-						-						
b)			randor														
c)			distrib														
d)			chance	9													
	9.	The	rejectio	on reg	gion for	r ^t ind	repre	esents	the val	lues o	of <i>t</i> tha	t have a	probał	oility		_ alph	a if
a)			greate	r than	H_0 is	s true											
b)			greater	r than	; H ₁ i	s false	e										
c)			-		equal t			ue									
d)					equal t												
	10) /	aanah		00000	t to o ¹	htain -	m 0 ** 0	00000004	o cot	motor	ofnor	lation	noromat		th	
	10													paramet sample			
a)			small;			opun		111 VV 11		- vail	uonny	11 5001		sumpte	u 15		•
b)			large;														

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c) d)		small; lar large; sma	-							
				what proportion					en the firs	t standard
a)	de		ve the mear	n to the second	l standard	deviatio	n above the	e mean?		
a) b)		.3413 .8413								
c)		.1359								
d)		.6826								
	12.01	ne characteri	istic of the	two hypothese	es formula	ated for a	statistical	test is that t	he hypothe	ses must
a)		be statem	ents about	the same sam	ple					
b)			n as a sente							
c)			e sample v			• .1	1			
d)		include al	ll possible	values of the p	barameter	in the po	pulation			
	13.Th	ne total varia	ation of a su	ubject's score	in a one-fa	actor betw	ween-subje	cts analysis	of varianc	e can be
	se	parated into								
a)			-	ndent variable		-	t variable			
b)				within-group rd deviation	s compon	ents				
c) d)				degrees of free	edom					
,	14.If	-	-	ple <i>t</i> test is rep		t(49) = 2.	329, <i>p</i> < .0	5, then you	know that	
		··			-	~ /				
a)		-		ess than .05						
b)		-	e size was							
c) d)		none of the		t was 2.329						
	15 דיי		ton of t	:-						
	_13.1f			is	fforman L	atwaan -	naana			
a) b)		-	-	ution of the di			nealls			
0)		une stanua								
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c)	the difference between the population means
d)	a measure of how much two sample means differ from each other
	16. The choice of a measure of variability to describe scores is <i>not</i> determined by which of the
	following?
a)	The size of the class interval
b)	The shape of the frequency distribution
c)	The scale of measurement
d)	The intended further statistical analysis of the data
	17. Which of the following is an appropriate null hypothesis for a chi-square test of independence?
a)	The means of populations A and B are equal.
b)	The mean of the population is equal to the mean of the sample.
c)	The distribution of scores for population A is identical to the distribution of scores for
	population <i>B</i> .
d)	The row and column variables are independent in the population.
	-18 . In a test to determine if r is statistically significant, the df for r_{obs} are equal to
a)	N _{pairs} - 1
b)	$N_{\text{pairs}} + 2$
c)	N _{pairs}
d)	$N_{\text{pairs}} - 2$
	19. The normal distribution
a)	is a theoretical distribution
b)	is symmetrical and asymptotic
c)	can be described completely by knowing its mean and standard deviation
d)	all the above
	$20.$ If H_0 is true in a chi-square test of independence, then the expected and observed
a)	frequencies in a cell of a contingency table should be unequal
b)	standard deviations in a cell of a contingency table should be about equal
c)	frequencies in a cell of a contingency table should be about equal
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學 1 0 6 蕬 度 大 碩博士班、博士學位學程暨碩士在職專 班 招 牛 考 試 題 紙 **科目**:研究方法 共6頁 d) means in a cell of a contingency table should be about equal 21. The *t*ind is appropriate for analyzing data from a one-factor ______ design using ______ levels of an independent variable. within-subjects; three or more a) within-subjects; two b) between-subjects; three or more c) between-subjects; two d) 22.The median _____. is the most frequently occurring score in a distribution a) is not affected by extreme scores in the tails of a distribution b) does not exist for a bimodal distribution c) cannot be calculated if a distribution is either positively or negatively skewed d) 23. Eta squared for a one-factor between-subjects analysis of variance is a measure of the ______. probability of making correct decisions about the statistical null and alternative hypotheses a) strength of effect of an independent variable b) amount of error variation within groups c) power of a statistical test d) 24.A parametric statistical test involves hypotheses about _____. population values such as the mean and variance a) measures of central tendency such as the mode and median b) sample statistics such as the mean and standard deviation c) sample measures of central tendency and variability d)

_25.An assumption of the statistical test for the significance of *r* is that the ______.

- a) variances of *X* and *Y* are equal
- b) *X* and *Y* scores are statistically independent
- c) *X* and *Y* scores form a bivariate normal distribution
- d) means of the *X* and *Y* populations are equal

___26.Generally, the mean is the preferred measure of central tendency because it is _____.

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- a) more useful for inferential statistics
- b) more stable than the median or the mode
- c) easier to calculate
- d) less affected by skewness in the distribution

二、 解釋名詞 (10%,每題5分)

- 1. 代表性信度(representative reliability)
- 2. 效標效度 (criterion validity)

三、 申論題 (25%)

 請你試著設計一個簡單的研究。首先請簡述你想進行的研究主題是什麼。根據這個主題,你會 擬定出怎樣的假設?(5%) 然後為了驗證你的假設,你將會如何採樣(sampling)?(5分) 以及你將 會測量哪一些變項?(5%) 此外,請試著在你的研究中加入所謂的中介變項(mediator)和調節變項 (moderator),最後並請簡述中介變項和調節變項的作用分別是什麼?(10%)