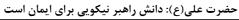
## كارشناسي





سری سوال: یک ۱

زمان آزمون (دقیقه): تستی: ۱۲۰ تشریحی: .

تعداد سوالات: تستى : ٣٠ تشريحي : .

عنوان درس: زبان تخصصي

رشته تحصیلی / کد درس: آمار، ریاضیات و کاربردها ۱۱۱۷۰۳۰

1-There is always some chance that the results based on the sample do not represent the					
•••••••••••••••••••••••••••••••••••••••					
1. statistics	<sup>2.</sup> population	<sup>3.</sup> sample	<sup>4.</sup> calculation		
2-Generalizing about the whole from knowledge of just the part is known as:					
<b>1.</b> induction	<sup>2.</sup> deductive	3. statistics	<sup>4.</sup> date		
3-There exists permutations of the letters in the word sky.					
<b>1.</b> 3	2. 2	3. <sub>1</sub>	4. 6		
4-The method of ANOVA uses for testing of					
1- difference of two means		2. equality of means			
3. difference of variances		4. ratio of variances			
5-Let 2,3,4,4,4,3,2 be frequences of seven then they have a shape.					
1. bell distribution		2. symmetric distribution			
3. rectangular distribution		4. skew distribution			
6-When the frequency of score is divided by the total number of scores, the result is called					
••					
<b>1.</b> meadian		2. cumulative frequency	,		
<sup>3.</sup> mean		<sup>4.</sup> relative frequency			
7-The mean, median, and mode are named					
1. the location parameter		2. the scale measures			
3. the dispersion values		4. the central values			
8-Which chart is used for quantitative data?					
1. Pie chart	<sup>2.</sup> histogram	<sup>3.</sup> bar chart	4. pareto chart		
9-When the distribution is severely skewed, it is not better to use a					
<b>1.</b> midpoint	<sup>2.</sup> mode	<sup>3.</sup> mean	<sup>4.</sup> median		
10-The color of some books	isscale.				
<b>1.</b> ordinal	<sup>2.</sup> nominal	<sup>3.</sup> interval	4. scale		
11-the most frequently occurring value in a set of observation is					
1. supermom	<sup>2.</sup> mean	<sup>3.</sup> mode	<sup>4.</sup> maximum		



سری سوال: یک ۱

زمان آزمون (دقیقه): تستی: ۱۲۰ تشریحی: ۰

تعداد سوالات: تستى: ٣٠ تشريحي: .

عنــوان درس: زبان تخصصي

رشته تحصیلی/کد درس: آمار، ریاضیات و کاربردها۱۱۱۷۰۳۰

 $^{12\text{-}}$  ...... indicates that at least  $1-\frac{1}{k^2}$  , of all population values lie within the limit

 $\mu \pm k\sigma$  where k > 1

1. Sigma field

2. Random sample

3. Chebychov inequality

4. sample space

13-The value of raw score less than the mean minus mean is ............

- 1. positive
- 2. average
- 3. negative
- 4. normal

14-In a positive skewed shape, the is ...... on the left of the median.

- 1. mode
- 2. mean
- 3. 75 percentile
- 4. a & c

15-A list of all possible outcome of an experiment is ...........

- 1. sample space
- 2. event
- 3. variable
- 4. random

16-How many sample points are in the sample space when the three coins are tossed?

**1.** <sub>2</sub>

2. 4

3. 6

4. c

17-If A and B are independent events then:

1.  $A \cap B = \phi$ 

2.  $P(A \cap B) = P(A) - P(B)$ 

3.  $P(A \cup B) = P(A) + P(B)$ 

4. P(A | B) = P(A)

18-Two dies are rolled. The number of elements of sample space is ............

1. 64

2. 12

3. 36

4. 4

19-The special case of the negative binomial distribution is .......

1. positive binomial distribution

2. geometric distribution

3. normal distribution

4. Binomial distribution

<sup>20</sup>-The coefficient of  $xy^3$  in the expansion of  $(x+y)^4$  is ......

1. 4

2. 6

3. 2

4. 3

21-What is the another name of normal distribution?

1. central limit

2. Gaussian

3. ordinal

4. Natural measure

## كارشناسي

## حضرت على (ع): دانش راهبر نيكويي براي ايمان است



سری سوال: یک ۱

زمان آزمون (دقیقه): تستی: ۱۲۰ تشریحی: .

تعداد سوالات: تستى : 30 تشريحي : .

عنـــوان درس: زبان تخصصي

		اضیات و کاربردها۱۱۱۷۰۳۰	<b>یلی/کد درس:</b> آمار، ریا
22-The more essential prop	erties of a random variabl	es are provided by its	
1. mean		<sup>2.</sup> variance	
3. mode		4. moment generating f	unction
23-A statement about relat	ionshin hetween two or n	nore variables is called:	
- N Statement about Telat	ionsinp secucen two or n	Total variables is called.	
1. association	<sup>2.</sup> induction	<sup>3.</sup> Correlation	4. hypothesis
24-Regression means :			
1. Straight line	<sup>2.</sup> return	<sup>3.</sup> foretell	<sup>4.</sup> curvature
25-The shows th	e direction and strength o	of the relationship betwee	n two variables.
1. association	<sup>2.</sup> calculation	3. correlation	<sup>4.</sup> observation
26-This formula $v = \frac{s}{x}$ is ca	lled:		
1. Skewness		2. Kurtosis	
3. Coefficient of variation		<sup>4.</sup> Variation	
27-Inference is stronge whe	n you have		
1- the information about mathematics		<sup>2.</sup> the mean of population	
3. big sample size		4. the random samples	
28-The of the st	atistical test is defined as	$1-\beta$ .	
<b>1.</b> level	<sup>2.</sup> rank	3. moment	4. power
29-rank means:			
1. mark	<sup>2.</sup> sign	<sup>3.</sup> grade	4. first
30-Which one is a parametr	ic test?		
1. Spearman test		2. Wilcoxon-Wilcox test	
3. Fisher test		4. Mann-Whitney test	