

**CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN,  
NUVEM – GOA.  
SEMESTER END REPEAT EXAMINATION, AUGUST 2020**

**B.A. Semester – V (Under CBCS Ordinance)  
PSYCHOLOGY-Statistics for Psychology BA505**

**Total Marks: 30**

**Date: 14<sup>th</sup> August 2020**

**Duration: 2 hours**

**Total No of pages: 02**

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**Instructions:** *All questions are compulsory.  
Figures to the right indicate marks.*

**Q1. Write short notes on any five of the following:**

**5x2=10**

a. Variables and constants along with continuous and discrete variables.

b. Calculate the mean for the following scores.

7891	2964	3895	6582	5234	4455	1099	8758
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a. Calculate the mode for the following scores.

799.5	625.5	1021.5	552.5	2102.5	625.5	857.5	625.5
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b. Calculate the Z scores for the following data.

	Test score X	Mean $\mu$	SD $\sigma$
	75	80	10

c. Define kurtosis and draw a figure depicting leptokurtic distribution.

d. Type I errors.

e. Types of correlation.

**Q2. Answer any four of the following:**

**4x5=20**

a. Discuss the various scales of measurement with suitable examples.

b. Find out the median and mode for the following sets of data.

29	45	33	30	42	35	38	29	32	21	29	24
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90	73	72	83	54	64	70	67	59	78	75	64
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c. Answer the following questions based on the frequency table below.

Class Intervals	Frequencies
170-179	2
160-169	3
150-159	10
140-149	19
130-139	21
120-129	22
110-119	18
100-109	2
90-99	3

1. Calculate the range of the frequency distribution.
2. Which class interval has the highest frequency?
3. Calculate the midpoint for the class interval 130-139.
4. Calculate the upper class and lower class limit for the class interval of 90-99.
5. Calculate the total no of frequencies for the above table.

d. Compute the standard deviation for the following scores.

20	18	16	14	13	11	10	9	8	5
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- e. Differentiate between null hypothesis and alternate hypothesis.
- f. Distinguish between percentiles and percentile ranks.

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