



K. Sambath

Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with A++ Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment II - October 2024
V Semester

Class : III UG
Major: Psychology

Time : 2 Hours
Max. Marks: 60

21BPSC15 STATISTICS IN PSYCHOLOGY

Part-A

6 X 1 = 6

Choose the Correct Answer

- The simplest measure of dispersion is
a. Quartile Deviation b. Standard Deviation c. Range d. Mean Deviation CO3 K2
- Quartile Deviation of 1, 3, 4, 5, 6, 6 and 10
a. 1.5 b. 3 c. 5 d. 6 CO3 K3
- The Statistical analysis which measures and analyses the degree or extent to which variables fluctuate with reference to each other
a. SD b. Mean c. Correlation d. QD CO4 K1
- The rank order correlation is denoted by
a. ρ b. r c. λ d. K CO4 K2
- The statistical test is commonly used to analyze contingency tables is
a. Chi-square test b. t- test c. ANOVA d. Correlation CO5 K1
- Yates correction will be done when the frequency is
a. = 5 b. > 5 c. < 5 d. < 10 CO5 K1

Part-B

3 X 6 = 18

Answer ALL the questions

Answers should not exceed 200 words or one page

- Calculate Quartile Deviation for the following data. CO3 K5

15	14	15	13	15	13	15	13	15	13	14
----	----	----	----	----	----	----	----	----	----	----

(Or)
- Explicate the uses of measures of variability. CO3 K3
- Define Correlation and its importance. CO4 K2

(Or)
- A random sample of 5 college students is selected and their grades in Mathematics and Science found to be. CO4 K4

Mathematics	85	60	73	40	90
Science	93	75	65	50	80
- Calculate correlation with Spearman's coefficient.
- Calculate chi square for the following table. A dice is tossed 120 times with the following result CO5 K2

Number turned up	1	2	3	4	5	6
Frequency	30	25	18	10	22	15

(Or)
- Briefly mention about contingency tables. CO5 K3

Answer ALL the questions

Answer should not exceed 800 words or four pages

10 a. Analyze about Standard Deviation.

CO3 K4

(Or)

10 b. Compute Quartile Deviation for the following

CO3 K5

Class Interval	120-122	117-119	114-116	111-113	108-110	105-107	102-104	99-101	96-98	93-95	90-92
f	2	2	2	4	5	9	6	3	4	2	1

11 a. Elucidate on Types of Correlation

CO4 K4

(Or)

11 b. Compute Pearson correlation for the following data

CO4 K5

Heights	57	59	62	63	64	65	55	58	57
Weights	113	117	126	126	130	129	111	116	112

12 a. Enumerate on Chi-square.

CO5 K3

(Or)

12 b. Calculate the difference between two means with the following data

CO5 K5

Sex	N	Mean	Standard Deviation
Girls	95	29.21	11.56
Boys	83	30.92	7.81

Number of Copies: 65 + 45

Staff in Charge: Dr. Gayatri Devi, S. & Mrs. Subhashini, S.

Library
COPY
M.10.24

Aided - 65

S.F - 45