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Name.....

Reg. No..... 78

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL/MAY 2015

(UG-CCSS)

Complementary Course—Psychology

PS 4C 02—PSYCHOLOGICAL STATISTICS

Time : Three Hours

Maximum : 30 Weightage

I. Objective Type questions. Answer *all* questions. Each question carries a weight of $\frac{1}{4}$:

A. Choose the correct answer :

1 The science of counting is _____.

- (a) Algebra. (b) Geometry.
(c) Statistics. (d) Mathematics.

2 Mann-Whitney U test is a _____ test.

- (a) Parametric. (b) c^2 .
(c) Non-parametric. (d) F-test.

3 The no. of observations falling within a particular class interval is _____.

- (a) Class frequency. (b) Class limit.
(c) Class mark. (d) Class magnitude.

4 The magnitude of discrepancy between theory and observation is described in :

- (a) Median test. (b) c^2 .
(c) Dispersion. (d) Contingency.

B. Fill in the blanks :

5 When assumptions are not possible _____ test is used.

- (a) Parametric. (b) Hypothetical.
(c) Z-test. (d) Non-parametric.

6 Friedman test is a _____ non-parametric analysis of variance.

- (a) Two-way. (b) One-way.
(c) Three-way. (d) Post-hoc.

7 Confidence with which the null hypothesis is accepted or rejected depends on _____.

- (a) c^2 . (b) Significant level.
(c) F-value. (d) r .

Turn over

8 The value exactly at the middle of a class interval is called _____.

- (a) Class limit. (b) Class magnitude.
(c) Class mark. (d) Class median.

C. Answer in a *single word* :

- 9 Who initially proposed Mann-Whitney U test ?
10 What is SAS ?
11 In order to test the null hypothesis that 'the two samples come from populations with same median', which test is used ?
12 _____ is a non-parametric substitute for the parametric test.

(12 × ¼ = 3 weight)

II. Short answer type questions. Answer *all* questions. Each question carries a weight of 1 :—

- 13 Degree of freedom. 14 F-test.
15 Regression. 16 Distribution free test.
17 SPSS. 18 ANOVA.
19 What is *t*-test ? 20 What is Statistics ?
21 Computer.

(9 × 1 = 9 weight)

III. Short essay type questions. Answer any *five* questions. Each question carries a weightage of 2 :

- 22 Uses of c^2 test. 23 Steps in computer data analysis.
24 Characteristics of non-parametric tests. 25 Steps in constructing frequency table.
26 Multiple regressions. 27 Wilcoxon matched pairs test.
28 Additive property of c^2 .

(5 × 2 = 10 weight)

IV. Essay type questions. Answer any *two* questions. Each question carries a weightage of 4 :—

- 29 Explain the construction of a Frequency table.
30 Find the value of c^2 for the following information :—

Class	:	A	B	C	D	E
Observed frequency	:	8	29	44	15	4
Expected frequency	:	7	24	38	24	7

- 31 The following table gives data regarding election of candidates to a state :

Economic Status		Rich	Poor	Total
Attitude towards election	:	50	155	205
Favourable	:	90	110	200
Total	:	140	265	405

Is attitude towards election influenced by the economic status of voters.

(2 × 4 = 8 weight)