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Name.....82.....

Reg. No.....

**THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014**

(UG-CCSS)

Complementary Course—Psychology

PS 3C 02—PSYCHOLOGICAL STATISTICS

Time : Three Hours

Maximum : 30 Weightage

I. Objective type questions. Answer *all* questions. Each question carries  $\frac{1}{4}$  weightage :

A. Choose the correct answer :

1 The relationship between a criterion and predictors is examined using \_\_\_\_\_.

- (a) Multiple regression. (b) Correlation.  
(c) Scatter diagram. (d) Tabulation.

2 Ordinary least square regression are \_\_\_\_\_.

- (a) Parametric. (b) Non-parametric.  
(c) Predictors. (d) Functional.

3 Variable that take only values as 0 and 1 are called \_\_\_\_\_.

- (a) Dummy variable. (b) Bivariate.  
(c) Binary variable. (d) Binomial variable.

4 An easy method for obtaining regression line is \_\_\_\_\_.

- (a) Method of least squares. (b) Free hand curve method.  
(c) Non-linear regression. (d) Linear regression.

B. Fill in the blanks :

5 The variable in a regression analysis whose value is to be predicted is called :

- (a) Independent variable. (b) Dependent variable.  
(c) Continuous variable. (d) Discrete variable.

6 Line of best fit is also known as \_\_\_\_\_.

- (a) Scatter line. (b) Regression.  
(c) Polygon. (d) Frequency curve.

7 The statistical test used in analysis of variance is \_\_\_\_\_.

- (a) The *t*-test. (b) Z test.  
(c) F-test. (d) Correlation.

Turn over



8 The addition, multiplication, subtraction, or division of data by a constant or common factor is referred to as \_\_\_\_\_.

- (a) ANCOVA. (b) ANOVA.  
(c) Regression. (d) Coding.

C. Answer in a single word :

9 The direct extension of simple regression to multiple explanatory variables is \_\_\_\_\_.

10 If two points of a scatter diagram concentrate around a straight line, it is called \_\_\_\_\_.

11 The basic purpose of Regression analysis is \_\_\_\_\_.

12 The hypothesis of Analysis of variance is \_\_\_\_\_.

(12 × ¼ = 3 weightage)

II. Short Answer Type Questions. Answer *all* questions. Each question carries 1 weightage :

13 F- test.

14 Assumptions in AnCova.

15 Multiple regression.

16 Line of best fit.

17 Distinguish between correlation and regression.

18 Within group variance.

19 Non- linear regression.

20 Standard error of estimate.

21 Principle of least squares.

(9 × 1 = 9 weightage)

III. Short Essay Type Questions. Answer any *five* questions. Each question carries 2 weightage :

22 Coding method.

23 Utility of regression analysis.

24 Principle of ANOVA.

25 Assumptions in analysis of variance technique

26 Simple regression.

27 Linear regression.

28 Regression coefficient.

(5 × 2 = 10 weightage)

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

29 Discuss Two- way ANOVA. What are the steps involved ?

23 From the following data values of x and y, find the regression equation of Y on X :—

X : 5 6 7 3 2

Y : 4 5 8 2 1

31 Explain the Freehand curve method for obtaining regression and mention about the limitations of regression.

(2 × 4 = 8 weightage)