(Pages : 3)

Name....................................

Reg. No..............................

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SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2015

(CUCBCSS–UG)

Complementary Course

Psychology

PSY 2C 02—PSYCHOLOGICAL STATISTICS—II

Time : Three Hours

Maximum : 80 Marks

Section A (Objective type Questions)

Each question carries 1 mark.

Multiple Choices. Choose the correct answer :

1. In regression analysis we study the ————— of relationship.

    (a) Degree.
    (b) Efficiency.
    (c) Nature.
    (d) Meaning.

2. The ————— of a random experiment is the set containing all the sample points of that random experiment.

    (a) Event.
    (b) Lot.
    (c) Sample point.
    (d) Sample space.

3. Which of the following is a graphic method of studying correlation ?

    (a) Histogram.
    (b) Dectogram.
    (c) Scatter diagram.
    (d) Pie diagram.

4. Correlation refers to :

    (a) Relationship.
    (b) Inference.
    (c) Nature.
    (d) Union.

5. Which of the following is a method of estimating bivariate correlation ?

    (a) Scatter diagram.
    (b) Spearman rank order.
    (c) Normality.
    (d) Regression.

Fill in the blanks :

6. Regression is used for testing —————.

7. The word correlation usually implies ————— and ————— relationship.

8. ————— is a continuous variable.

Turn over

9. Correlation coefficient is a ———————— value.

10. Co-efficient of correlation is a/an ———————— method of measuring relationship.

(10 × 1 = 10 m

Part B

Write short notes on all the questions.
Each question carries 2 marks.

11. What is a continuous variable ?

12. Define Correlation.

13. Define Scatter diagram.

14. What is sample space ?

15. What is probability ?

16. What is the meaning of a zero correlation coefficient ?

17. What is negative correlation ?

18. What is correlation co-efficient ?

19. What is partial correlation ?

20. What is frequency ?

(10 × 2 = 20 m

Part C

Answer any six questions in a paragraph each.
Each question carries 5 marks.

21. What is multiple regression ?

22. Distinguish between Positive and Negative correlation.

23. What are the uses Spearman Rank Order Correlation ?

24. Discuss the merits and demerits of scatter diagram.

25. Distinguish between Karl Pearson correlation and Rank order correlation.

26. Discuss the uses of correlation.

27. What is linear correlation ?

28. What is a correlation coefficient ? Explain its importance.

(6 × 5 = 30 m

Part D

Answer any two questions in an essay each.
Each question carries 10 marks.

29. Explain the random variables and their probability distribution.

30. What is multiple correlations and regression ? Explain.

31. Calculate the rank order correlation for the following values :—   **66**

X	...	44	45	48	54	46	50
Y	...	32	34	38	48	34	45

32. Discuss the basics of probability distribution.

(2 × 10 = 20 marks)