Tribhuvan University

Faculty of Humanities & Social Sciences

OFFICE OF THE DEAN

2019

Bachelor in Computer Applications **Full Marks: 60**
Course Title: Probability and Statistics **Pass Marks: 24**
Code No: CAST 202 **Time: 3 hours**
Semester: III

Center:	**Symbol No:**

Candidates are required to answer the questions in their own words as far as possible.

Group A

Attempt all the questions. **[10×1 = 10]**

1. Circle (O) the correct answer.

i) How many types of data on the basis of sources of data collection?
a) 1 b) 2 c) 3 d) 4

ii) Which is more appropriate central tendency to find the average of profit?

a) Arithmetic mean b) Median

c) Mode d) All

iii) What is the range of Correlation?

a) 0 to ∞ b) -∞ to ∞ c) -1 to 1 d) 0 to 1

iv) If r=0.2 then coefficient of determination implies that

a) 20% of total variation in dependent variable has been explained by independent variable.

b) 40% of total variation in dependent variable has been explained by independent variable.

c) 2% of total variation in dependent variable has been explained by independent variable.

d))4% of total variation in dependent variable has been explained by independent variable.

v) What is the minimum value of Probability?

a) 1 b) 100 c) 0 d) None of above

vi) In case of Normal distribution

a) Mean >Median b) Mean =Median c) Mean ≤Median d) Mean ≥Median

vii) The regression line of X on Y and Y on X are intersect at the point

a) (μ,0) b) (a,b) c) (X,Y) d) $(\bar{X}, \bar{Y})$

viii) In case of systematic sampling

a) sample mean is biased estimator population mean.

b) sample mean is unbiased estimator population mean.

c) sample mean can't estimate population mean.

d) sample mean may equal to population mean.

ix) Mean of Chi-Square distribution with n degrees of freedom is

a) 1 b) 0 c) 2n d) n

x) How do you obtain degree of freedom in one-way ANOVA?

a) (k, n-1) b) (k, n-k)

c) (k-1, n-1) d) k-1, n-k)