4/46

0402E1396

Candidate's Seat No :_____

MCom (HPP) Sem.-1 FFS Examination

CC-3

Research in Finance

February-2025

Time : 2-30 Hours] **[Max. Marks : 70**

Q.1 (A) Explain steps included in the Research Process. **[07]**

(B) What are the criteria for good research? **[07]**

OR

Q.1 (A) Explain different types of Research Design. **[07]**

(B) Explain meanings of qualitative and quantitative research. **[07]**

Q.2 (A) Explain probability sampling methods. **[07]**

(B) Explain Primary and Secondary data. **[07]**

OR

Q.2 (A) Prepare the layout of table for the candidates called for personal interview for recruitment of different posts taking into account the following attributes: **[07]**

(1) Sex: Male, Female

(2) Marital Status: Marries, Unmarried

(3) Designation: Teacher, Clerk, Peon.

(B) Prepare the frequency distribution from the following bonus paid to factory workers: **[07]**

BONUS PAID TO WORKERS										
86	62	58	73	101	90	84	90	76	61	60	60
84	63	56	72	102	56	83	92	87	60	83	78
83	69	57	71	103	57	87	93	88	59	76	74
76	70	54	70	104	58	88	94	89	57	60	70
74	86	55	60	105	59	89	84	90	74	91	100
67	67	84	82	70	60	60	90	81	91	76	102

Q.3 (A) Obtain Yule's coefficient of association between two attributes A and B and interpret it. (B)=622; (Bα) =151; (Aβ) =148; N=1000. **[07]**

(B) Find Median, Q_3 and Q_1 of the following frequency distribution. **[07]**

(P.T.O)

Class	145-150	150-155	155-160	160-165	165-170	170-175
f_i	4	16	60	100	40	6

OR

Q.3 (A) Calculate Bowley's coefficient of skewness of the following data. **[07]**

Class	0-99	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189	190-199	200-209
Frequen	1	14	66	122	145	121	65	31	12	5	2	2

(B) Two judges have given ranks to 10 competitors in a singing competition. **[07]**

Find the rank correlation co-efficient.

Rank by Judge I	2	3	1	6	4	5	8	7	10	9
Rank by Judge II	1	4	3	4	5	6	7	8	9	10

Q.4 (A) A Physical test were performed to 5 candidates and the results are as follows: **[07]**

Candidate	1	2	3	4	5
Pulse before training	82	84	90	92	90
Pulse after training	92	82	92	96	86

Test whether there is any change in Pulse rate after training.

(t-table value for 4 d.f.= 2.776)

(B) The no. of fire accidents per week are as follows. Can it be concluded that the proportion of fire accidents are equal for all days? **[07]**

Day	Mon	Tue	Wed	Thu	Fri	Sat	Sun
No. of fire accidents	14	16	8	12	11	9	12

(χ^2 – table value for 6 d.f = 12.59)

OR

Q.4 (A) Prepare ANOVA table for the following data. **[07]**

Brand 1	Brand 2	Brand 3	Brand 4
20	19	21	15

23	15	19	17
18	17	20	16
17	20	17	18
	16	16	

Test at 1 % level of significance. (Table value of F (3, 16) = 5.56)

(B) A sample of 90 units found to have mean 74. Can it be reasonably regarded as a sample from a large population with mean 71 and standard deviation 8? **[07]**

Q.5 Give the answers of the following (Attempt Any Seven out of twelve) **[14]**

1. The first step of research is to _____
A Selecting a problem
B Searching a problem
C Finding a problem
D Identifying a problem

2. Research can be classified as _____
A Basic, Applied and Action Research
B Exploring, Historical, Survey and Experimental Research
C Quantitative and Qualitative Research
D All the above

3 The measure of the central tendency is given by the X – coordinate of the point of intersection of the more than ogive and less than ogive is _____
A Mode
B Mean
C Median
D None of the above

4 Which one is called non-probability sampling?
A Quota sampling
B Cluster sampling
C Systematic sampling
D Stratified random sampling

5 A value found from the population is called_____ and the value found from the sample is called _____
A Sample, population
B Population, sample
C Statistic, parameter
D Parameter, statistic

6 What is the total angel at the centre of pie chart?

(P.T.O)

A 360^0
B 320^0
C 180^0
D 90^0

7 If the value of two variables move in the same direction, them _____
A There is no correlation
B The correlation is said to be negative
C The correlation is said to be positive
D All the above

8 The sum of Mean deviations is always _____.
A -1
B 0
C 1
D -1 to 1

9 In conduction One way ANOV, which of the following test statistics would be used.
A Z
B t
C F
D χ^2

10 If the critical region is located equally in both sides of the sampling distribution of test-statistic, the test is called:
A One tailed
B Two tailed
C Right tailed
D Left tailed

11 Goodness of fit of a distribution is tested by ____
A t-test
B F-test
C Z-test
D Chi-square test

12 Which of the given plots is suitable for testing the linear relationship between a dependent and independent variable?
A Bar chart
B Scatter plot
C Histograms
D None of above

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