Q. P. Code: 35861

Duration: 2.5 hours   **Marks: 75**

Instructions:
All questions are compulsory.
Figures to right indicate full marks.
Use of simple calculator is allowed.

Q.1)A) Multiple Choice Question **(Any Eight)**   (08 Marks)

a) Research ethics is _____ (Safety / transparency / all of these)
b) The first section of research paper is __ (Abstract / Introduction / Analysis)
c) ____ is a reference to a published or unpublished source (Citation / Footnotes / Bibliography)
d) _____ Hypothesis states that there is no relationship between two or more variables (Null / alternative / Negative)
e) _____ research is also called as fundamental research (Basic / Empirical / Applied)
f) ____ refers to previous research studies, reference books and other published sources. (Literature review / Research design/ research report)
g) ____ data is also known as recorded data from published sources. (Secondary/ Tertiary / Primary)
h) A sampling distribution is the distribution of _____ (Parameter / Mean / Proportion)
i) Research _____ is a logical and systematic plan for conducting research study. (design / report / sample)
j) _____ is an indirect and impersonal method of conducting survey. (Questionnaire / Experiment / Observation)

Q.1)B) state whether True or False **(Any Seven)**   (07 Marks)

a) Pilot study is conducted on a larger segment of the research universe.
b) Literature review helps to provide good insight into the research problems.
c) Data processing is the intermediary stage between data collection and data analysis.
d) Research Methodology is a scientific and systematic approach to solve business problems.
e) Hypothesis must explain the facts that give rise to the need for explanation.
f) Survey question can be open ended, close ended and structures.
g) Stratification is the process of grouping the members of the population in non-homogeneous group before sampling.
h) Mode is the value which occurs most frequently in the distribution.
i) Data editing is influenced by the complexity of the questionnaire.
j) Completely randomize design involves he principal of replication and the principal of randomization of experimental designs.

Q.2)A) Explain the Research and its types   (07 marks)

Q.2)B) What are the steps to be taken for formulation of hypothesis   (08 marks)

OR

Q.2)A) Explain Survey method and types of survey method   (07 marks)

Q.2)B) Explain the methods of non-probability sampling   (08 marks)

Q.3)A) Explain hypothesis and sources of hypothesis   (07 marks)

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Q.3)B)Calculate the Mean and Median for the data given below   (08 marks)

Daily Earnings (Rs.)	50-53	53-56	56-59	59-62	62-65	65-68	68-71	71-74	74-77
No. of Persons	4	7	15	30	36	28	16	10	5

OR

Q.3)A)Calculate Standard Deviation from the following   (08 marks)

Marks	10	20	30	40	50	60
No. of students	7	13	20	10	6	4

Q.3)B) Explain the structure and layout of research report   (07 marks)

Q.4)A)Calculate coefficient of correlation from the following data   (08 marks)

X	12	9	8	10	11	13	7
Y	14	8	6	9	11	12	3

Q.4)B)Describe the steps in research report writing   (07 marks)

OR

Q.4)A)Find out the co-efficient of mean deviation in the following series   (08 marks)

Age in years	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of Persons	20	25	30	40	45	35	10	8

Q.4)B) Explain the importance of review of literature   (07 marks)

Q.5)A)Explain the data processing? Explain the steps of data processing   (07 marks)

Q.5)B)What is primary data and the techniques of primary data collection   (08 marks)

OR

Q.5) Write short notes (**Any Three**)   (15 Marks)

a) Secondary Method
b) Advantages of sampling
c) Regression Analysis
d) Editing of data
e) Essential of Good Report

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