2022

(Held in 2023)

COMMERCE

(Theory Paper)

Paper Code : MCO-302

(Research Methodology)

Full Marks – 80

Pass Marks – 32

Time – Three hours

The figures in the margin indicate full marks for the questions.

1. ·Choose the correct answers :   1×6=6

(a) The depth of research is judged by

(i) research title

(ii) research objectives

(iii) Both (i) and (ii)

(iv) None of these

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(b) Lottery method is

    (i) Probability sampling method

    (ii) Non-probability sampling method

    (iii) Both (i) and (ii) above

    (iv) None of the above

(c) Which of the following is not a probability sampling ?

    (i) Convenience sampling

    (ii) Systematic sampling

    (iii) Random sampling

    (iv) Stratified sampling

(d) A complete survey of population is called

    (i) Sample   (ii) Report

    (iii) Census   (iv) All of these

(e) Coding is done

    (i) before data collection

    (ii) during the formulation of research objectives

    (iii) during the time of data entry

    (iv) None of the above

(f) Unit of analysis is

    (i) sample   (ii) variable

    (iii) main parameter   (iv) construct

2. Answer the following questions :   2×5=10

(a) What is Pure research ?

(b) What is Research methodology ?

(c) Write any two points of differences between Close-ended and Open-ended questions.

(d) Write the different types of tabulation.

(e) What is : (i) Population and (ii) Sample ?

3. Answer any *six* of the following questions :   5×6=30

(a) Write a note on selection and formulation of research problem.

(b) Write the differences between Qualitative and Quantitative research.

(c) What are the steps in data processing ? Discuss.

(d) Why is Telephonic interview considered to be a cost effective data collection method ? Discuss.

(e) What is Sampling ? Write the significance of sampling.

(f) How does a researcher collect primary data through observation method ? Explain.

(g) Write a note on Judgement sampling.

(h) The Managing Committee of a chain of international schools feels that 25% of all the schools will increase enrolment after introducing 'Fee-waiving Scheme'. Determine the sample size under the condition that the mean proportion is within plus or minus 0.05 at a confidence level of 95%.

(i) Mr. A wants to conduct a study on students politics and its impact on solid-economic development. Find out the difficulties that may be faced by Mr. A.

4. Answer any *two* questions : 10×2=20

(a) What is Research ? What are the criteria of a good reseach ? Discuss. 4+6=10

(b) What is Multistage sampling ? Explain with suitable example. 10

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(c) A mobile handset manufacturing firm launches three different models exclusively for the students. From the following data find out the relationship between the model of handset and the type of course pursued by the students. Calculate χ^2 test : 10

Model

	A	B	C
Students in PG level	14	18	48
Students in UG	258	92	430

Total sample : 860;

χ^2 table value at 0·05 = 5·991.

5. Answer any *one* question : 14×1=14

(a) Explain Descriptive and Exploratory research design with suitable examples. 14

(b) A new variety of rice is distributed to the farmers of three villages of a State. As a researcher, find out if there is difference in rice production in three villages. Calculate ANOVA considering $\alpha = 0.05$: 14

Village 1	51	45	33	45	67
Village 2	23	43	20	-40	40
Village 3	28	38	37	40	28

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