QUESTION 2017

GROUP – A
(Multiple Choice Type Questions)

1. Choose the correct alternatives for any ten of the following:

i) Research Design can be classified as
   - a) open and closed end
   - ✓b) explanatory, descriptive and causal
   - c) both of these
   - d) none of these

ii) Secondary data can be collected through
   - ✓a) on-line database
   - b) case studies
   - c) mechanical devices
   - d) observation

iii) A hypothesis is
   - a) a fact already proven by the researcher
   - b) a subset of population
   - c) non-representative of the population
   - ✓d) may or may not be a part of population

iv) Which of the following contribute(s) to the effectiveness of a report presentation?
   - a) Content
   - b) Context
   - c) Medium
   - ✓d) All of these

v) Which of the following is a method of data collection?
   - a) Questionnaire
   - b) Interviewing
   - c) Observation
   - ✓d) All of these

vi) Case study is a study of
   - a) Individuals
   - b) Events
   - c) Situation
   - ✓d) none of these

vii) In a semi-structured interview method, which research design is frequently used?

a) Exploratory research design

b) Casual research design

✓c) Descriptive research design

d) Explanatory research design

viii) .... scale is the highest category of scale.

✓a) Ratio

b) Ordinal

c) Interval

d) Nominal

ix) Probability sampling techniques include

✓a) Random sampling

b) Systematic sampling

c) Stratified sampling

d) all of these

x) Unstructured questions are

✓a) open-ended question

b) close-ended question

c) dichotomous question

d) none of these

xi) .... may be defined as the study of a social situation with a view to improving the quality of action within it.

✓a) Action research

b) Experimental research

c) Case study

d) None of these

xii) Data on 1500 students' height were collected at a large university. Which of the following is the best chart for presenting the information?

a) A pie-chart

b) A Pareto diagram

c) A side-by-side bar chart

✓d) A histogram

xiii) The measurement scale whose successive values represent equal value of the characteristics and whose base value is not fixed, is called

a) Interval scale

b) Ratio scale

c) Nominal scale

✓d) Ordinal scale

Group – B

(Short Answer Type Questions)

2. Explain the quantitative and qualitative research methods as used in research.
See Topic: TERMINOLOGY, Short Answer Type Question No. 4.

3. Explain the sampling technique in research process.
See Topic: SURVEY METHODS, Short Answer Type Question No. 5.

4. Two variables have the least square regression lines $x+4y+3=0$ and $4x+9y+5=0$. Find the mean values of x and y and their correlation coefficient.
See Topic: DATA ANALYSIS, Short Answer Type Question No. 4.

5. Calculate the median of the following data:

Marks	Less than 5	Less than 10	5-15	15 and above	20 and above	25-30
No. of Students	3	20	37	60	20	5

See Topic: DATA ANALYSIS, Short Answer Type Question No. 5

6. Draw a suitable diagram to display the following information:

Sources of funds	Amount (in Crore)
Direct taxes on income	Rs. 15,000
Custom duties	Rs. 18,000
Other taxes	Rs. 25,000
Revenue from public undertakings	Rs. 10,000
Other receipts	Rs. 8,00

See Topic: DATA ANALYSIS, Short Answer Type Question No. 6.

7. Write a note on Type I and Type II errors.
See Topic: DATA ANALYSIS, Short Answer Type Question No. 3

Group – C
(Long Answer Type Questions)

8. What are the attributes of a good Questionnaire? Prepare a questionnaire on the topic of 'The usage of social networking sites and its impact on youth'.
1ˢᵗ Part: See Topic: RESEARCH METHODS, Long Answer Type Question No. 8.
2ⁿᵈ Part: See Topic: RESEARCH METHODS, Long Answer Type Question No. 3.

9. Explain the research process. Write a research proposal on a topic of your interest.
See Topic: RESEARCH METHODS, Long Answer Type Question No. 9.

10. a) Find a line of regression from the following data.

Expenditure on advertisement (in lakh) (X)	25	22	28	26	35	20	22	40	20	18
Amount of sales (in '000) (Y)	18	15	20	17	22	14	16	21	15	14

Hence, estimate the amount of sales when the amount of expenditure is 55 lakh.
b) Discuss the different types of scaling techniques in research.

a) See Topic: **DATA ANALYSIS**, Long Answer Type Question No. 10.

b) See Topic: **SURVEY METHODS**, Long Answer Type Question No. 3(c).

11. Briefly describe different methods of ascertaining the reliability & validity of measurement.

See Topic: **TERMINOLOGY**, Long Answer Type Question No. 3.

12. Explain in detail the steps for carrying out research project. State the different types of report.

See Topic: **RESEARCH PROJECT**, Long Answer Type Question No. 5.

13. a) The students obtained the following marks in Statistics (X) and Accountancy (Y). Find the Spearman's rank correlation coefficient.

Student	A	B	C	D	E	F	G	H	I	J
X	92	89	86	87	83	71	77	63	53	50
Y	86	83	77	91	68	52	85	82	57	57

b) For a distribution of 280 observations, mean = 54. On checking it was found that observations which should correctly read as 62 and 82 had been wrongly recorded as 26 and 28 respectively. Calculate the correct values of mean.

See Topic: **DATA ANALYSIS**, Long Answer Type Question No. 11.