

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019

Course: Research Methodology & Report Writing

Program: BBA AM & DM

Course code: DSRM 2001

Instructions: Attempt all sections

Semester: IV

Time: 03 Hours

Max. Marks: 100

SECTION – A

Q1 Section most appropriate answer.

(1×10)

I. The median of the variate values 11, 7, 6, 9, 12, 15, 19 is

(CO3)

(a) 9

(b) 12

(c) 15

(d) 11

II. Extreme values has no effect on

(CO3)

(a) Average

(b) Median

(c) Geometric

(d) Harmonic

III. Mailed questionnaire method of enquiry can be adopted if respondents:

(CO2)

(a) Live in cities

(b) Have high income

(c) Are educated

(d) Are known

IV. Statistical data are collected for (CO3)

- (a) Collected data without any purpose
- (b) A given purpose
- (c) Any purpose
- (d) None of the above

V. How many steps in research process? (CO1)

- (a) 2
- (b) 5
- (c) 6
- (d) 7

VI. A study based on complete enumeration is known as: (CO2)

- (a) Sample survey
- (b) Pilot survey
- (c) Census survey
- (d) None of the above

VII. A selection procedure of a sample having no involvement of probability is known as (CO1)

- (a) Purposive sampling
- (b) Judgment sampling
- (c) Subjective sampling
- (d) All of the above

VIII. Which of the following statement does not hold good in case of stratified sampling (CO1)

- (a) Stratified sampling is convenient
- (b) Stratified sampling is always good.
- (c) Enables to gather information about different stratum separately,
- (d) Reduces error for fixed cost

- IX. A hypothesis may be classified as (CO3)
- (a) Simple
 - (b) Composite
 - (c) Null
 - (d) All of above

- X. Out of the two types of error in testing, the more sever error is (CO3)
- (a) Type I error
 - (b) Type II error
 - (c) Both a and b are equally sever
 - (d) No error in sever

Q2 Fill up the blanks (2×5)

- (a) Observations collected through surveys or experiments are classified as..... (CO2)
- (b) The errors other than sampling errors are termed as (CO1)
- (c) All sampling units are present in..... population. (CO1)
- (d)are used in mailed enquiry method. (CO2)
- (e) A hypothesis is anabout the parameter of a population. (CO3)

SECTION-B

Attempt any four question (5×4)

- Q3 What is the meaning of research? Describe the objectives of doing research. Also discuss the main features of a good research design. (CO1)

- Q4 Discuss the various phases of a research problem. Also explain the process of formulation of research problem (CO4)

Q5 What are sampling techniques? What is the need and limitation of sampling? (CO1)

Q6 Explain method of designing of questionnaire. How can you construct a good questionnaire?

(CO2)

Q7 Discuss the process of report writing. What are the characteristics of a good research report?

(CO5)

SECTION-C

Attempt any two question

(15×2)

Q8 Describe different types of research with examples. What is the difference between an experiment and survey.

(CO1)

Q9 Define Correlation and types of correlation .Find the correlation coefficient of the following data.

(CO3)

<i>X</i>	10	12	8	15	20	25	40
<i>Y</i>	15	10	6	26	16	12	8

Q10 Define regression and regression coefficients. Calculate regression equations from following data.

(CO3)

<i>X</i>	3	6	9	12	15
<i>Y</i>	3	12	27	48	75

SECTION-D

Attempt any one question

(30×1)

Q11 Define chi-square test with its properties. A large electronic form which hires many handicapped workers wants to determine whether handicapped affect such workers performance because of sample data given below. Is it reasonable to believe that the handicapped have no effect on workers performance? (CO3)

Workers	Above Average	Average	Below Average
Handicapped	37	113	32
No Handicapped	23	97	28

Q12 Write short note on any three on the followings

- (i) Describe measure of central tendency and dispersion. (CO3)
- (ii) Explain skewness and kurtosis. (CO3)
- (iii) Measurement and scaling techniques. (CO2)
- (iv) Role of literature review in research. (CO1)
- (v) Research Process (CO5)