Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019 Course: Research Methodology and report writing Semester: III Program: BBA(AO) Time: 03 Hours Course code: DSRM2001 Max. Marks: 100 **SECTION A** (20 Marks) Each question in section A is a multiple-choice question with four answer choices. Read each question and choose the one best answer. Which is the limitation of business research 1. (a) Access to information (b) Time management 2 CO₁ (c) Access to resources (d) All the above 2. Which study is similar to descriptive research study but with a different focus? (a) Experimental research (b) Diagnostic research 2 CO₁ (c) Qualitative research (d) All the above **3.** Which is the process of summarizing raw data and displaying the same in compact form for further analysis? (a) Tabulation CO₁ 2 (b) Coding (c) Editing (d) Interpretation 4. Which variable is presumed to cause a change in the dependent variable? (a) Dependent Variable (b) Independent Variable 2 **CO1** (c) Confounding Variable (d) Extraneous Variable

| 5. | Which of the following is the least of the elements from which the sample may be | | |
|-----|-----------------------------------------------------------------------------------|---|-----|
| | drawn? | | |
| | (a) Sampling plan | | |
| | (b) Sampling frame | 2 | CO1 |
| | (c) Sampling unit | | |
| | (d) Survey | | |
| 6. | In which sampling the entire population is segmented into mutually exclusive | | |
| | groups? | | |
| | (a) Convenience sampling | | |
| | (b) Quota sampling | 2 | CO1 |
| | (c) Judgment sampling | | |
| | (d) Snowball sampling | | |
| 7. | In which scale has a natural zero point and further numbers are placed at equally | | |
| | appearing intervals? | | |
| | (a) Nominal | | |
| | (b) Ordinal | 2 | CO1 |
| | (c) Interval | | |
| | (d) Ratio | | |
| 8. | Which of the following techniques are useful in giving respondents opportunities | | |
| | to express their attitudes without personal embarrassment? | | |
| | (a) Projective techniques | | |
| | (b) Focus group | 2 | CO1 |
| | (c) Case study method | | |
| | (d) Depth interview | | |
| 9. | Which one of the following is advantage of Latin square design? | | |
| | (a) You can control variation in two direction | | |
| | (b) The number of treatments must equal the number of replication | 2 | CO1 |
| | (c) The experimental error is likely to increase with the size of the square | | |
| | (d) All the above | | |
| 10. | Which of the following group refers to another group assigned to the experiment | | |
| | on which treatment not applied | 2 | CO1 |
| | (a) Treatment group | | |

| | (b) Experimental | group | | | | |
|-----|-------------------------------------------------------------------------------|------------------|-----------------------|-------------------------|-------------|------|
| | (c) Control group | 1 | | | | |
| | (d) Random group | p | | | | |
| | | | SECTION B | (20 | Marks) | |
| | Attempt all the quest | ions: | | | | |
| 11. | Distinguish between o | | regression with the | help of an example. | | 001 |
| , | How are the two concepts used together? | | | 5 | CO1, CO2 | |
| 12. | An investigator want | s to estimate tl | he proportion of fres | shmen at his University | | |
| | who currently smoke cigarettes (i.e., the prevalence of smoking). How many | | | | | |
| | freshmen should be in | volved in the st | tudy to ensure that a | 95% confidence interval | 5 | CO1, |
| | estimate of the prop | ortion of fresh | men who smoke is | within 5% of the true | | CO2 |
| | proportion? | | | | | |
| 13. | Explain layout of the research report. | | | | 5 | CO1, |
| 14. | Distinguish between i | independent de | anandant and avtran | oone variahla | | CO2 |
| 17. | Distinguish between i | macpenaent, at | cpendent and extrant | cous variable. | 5 | CO1, |
| | - | | SECTION-C | (30 Mai | rks) | • |
| | Attempt any three qu | estions: | | | | |
| 15. | The following table gives the data on the quantity demanded, price and income | | | | | |
| | of a commodity for the period 1996 to 2005. | | | | | |
| | Year | Demand (X) | Income(I) | 7 | | |
| | 1996 | 100 | 1000 | | | |
| | 1997 | 75 | 600 | | | |
| | 1998 | 80 | 1200 | | | ~~. |
| | 1999 | 70 | 500 | | 10 | CO1, |
| | 2000 | 50 | 300 | | 10 | CO2, |
| | 2001 | 65 | 400 | | | CO3 |
| | 2002 | 90 | 1300 | | | |
| | 2003 | 100 | 1100 | | | |
| | 2004 | 110 | 1300 | | | |
| | 2005 | 60 | 300 | | | |
| | (a) Estimate the linear regression of the demand on the income. | | | | | |
| | (b) Compute r^2 and | nd interpret the | e same. | | | |

| 16. | | | | | | | | | | |
|-----|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|-------------|--------|------|---------------------|--|--|
| | The manager of | f ABC ice-crea | m parlour has to | o take a decisio | n regardin | g how | | | | |
| | much of each fl | nuch of each flavour of ice-cream he should stock so that the demands of the customers are satisfied. The ice-cream supplies claim that among the four most | | | | | | | | |
| | | | | | | | | | | |
| | | | • • | | O | | | | | |
| | popular flavours, 62 percent customers prefer vanilla, 18 percent chocolate, 12 | | | | | | | | | |
| | percent strawberry and 8 per cent mango. A random sample of 200 customers | | | | | | | CO1, | | |
| | | | | | | | 10 | CO2, | | |
| | percentages given by the supplies are correct. | | | | | | | CO3 | | |
| | percentages give | an by the supph | les are correct. | | | | | | | |
| | | | 1 | | | | | | | |
| | Flavour | vanilla | chocolate | Strawberry | Mang | go | | | | |
| | No Preferring | 120 | 40 | 18 | 22 | | | | | |
| | | | | | | | | | | |
| 17. | | | | | | | | | | |
| 17. | | | | | | _ | | | | |
| | Two salesmen ,A | A and B are em | ployed by a com | pany. Recently, | it has cond | lucted | | | | |
| | a sample survey | yielding the fol | llowing data: | | | | | | | |
| | | Salesman A Salesman B | | | | | | | | |
| | No. of | P 11 | | | | | 10 | CO1, CO2, CO3 | | |
| | No of | | 20 | | 22 | | | | | |
| | Averag | ge sell | 800 | 7 | 780 | | | | | |
| | Standard | Standard deviation | | ı | 60 | | | | | |
| | Is there any sign | ificant differen | ice between the a | verage sales of | the two | | | | | |
| | salesmen? | | | verage sares or | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 18. | | | | | | | | | | |
| | | | umber of good ar | nd defective par | ts produced | l by | | | | |
| | each of the three | | | | | | | | | |
| | Shift | Good | Defect | | otal | | | | | |
| | Day | 900 700 | 130 170 | 87 | 030 | | | CO1, | | |
| | Evening Night | 400 | 200 | 60 | | | 10 | CO2, | | |
| | Total | 2000 | 500 | | 500 500 | | | CO3 | | |
| | | | | | | | | | | |
| | Is there any association between the shifts and the quality of the parts produced? Use a 0.05 level of significance. | | | | | | | | | |
| | | | | | | | | | | |
| | | | SECTION D | | () | O Mari | l-a) | | | |
| | SECTION-D (30 Marks | | | | | KS) | | | | |
| | Answer the que | stion based on | following Case S | tudy: | | | | | | |
| | 1 | | g | • | | | | | | |

| | Peter decided to base his research project on the Chinese firms. The main objective of his proposed research was to better understand the internationalization and global brand development of Chinese firms. The aim is not only to evaluate internationalization and the reasons China lacks a truly global brand, but also to Analyse what types of strategy Chinese firms need to take in order to achieve 'global brand' status. | | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------|
| 19. | Give the suitable research design for the above case. Give reasons in support of your answer. | 10 | CO1, CO2, CO3, CO4 |
| 20. | Can you suggest a better design? | 10 | CO1, CO2, CO3, CO4 |
| 21. | What are the main objectives of the study? | 10 | CO1, CO2, CO3, CO4 |