| Name: <br> Enrolment No: |  | 15 UPES <br> UNIVERSITY WITH A PURPOSE |  |
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| \left.UNIVERSITY OF PETROLEUM AND ENERGY STUDIES  <br> End Semester Examination, December 2019 $\right]$ |  |  |  |
| 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. |  |  |  |
| 1. | Which is the limitation of business research <br> (a) Access to information <br> (b) Time management <br> (c) Access to resources <br> (d) All the above | 2 | CO1 |
| 2. | Which study is similar to descriptive research study but with a different focus? <br> (a) Experimental research <br> (b) Diagnostic research <br> (c) Qualitative research <br> (d) All the above | 2 | CO1 |
| 3. | Which is the process of summarizing raw data and displaying the same in compact form for further analysis? <br> (a) Tabulation <br> (b) Coding <br> (c) Editing <br> (d) Interpretation | 2 | CO1 |
| 4. | Which variable is presumed to cause a change in the dependent variable? <br> (a) Dependent Variable <br> (b) Independent Variable <br> (c) Confounding Variable <br> (d) Extraneous Variable | 2 | CO1 |


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


|  | (b) Experimental group <br> (c) Control group <br> (d) Random group |  |  |  |  |
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|  | SECTION B |  |  |  |  |
|  | Attempt all the questions: |  |  |  |  |
| 11. | Distinguish between correlation and regression with the help of an example. How are the two concepts used together ? |  |  | 5 | $\begin{aligned} & \mathrm{CO1}, \\ & \mathrm{CO} 2 \end{aligned}$ |
| 12. | An investigator wants to estimate the proportion of freshmen at his University who currently smoke cigarettes (i.e., the prevalence of smoking). How many freshmen should be involved in the study to ensure that a 95\% confidence interval estimate of the proportion of freshmen who smoke is within $5 \%$ of the true proportion? |  |  | 5 | $\begin{gathered} \mathrm{CO} 1, \\ \mathrm{CO} 2 \end{gathered}$ |
| 13. | Explain layout of the research report. |  |  | 5 | $\begin{aligned} & \mathrm{CO} 1, \\ & \mathrm{CO} 2 \\ & \hline \end{aligned}$ |
| 14. | Distinguish between independent, dependent and extraneous variable. |  |  | 5 | $\begin{aligned} & \mathrm{CO1}, \\ & \mathrm{CO} \end{aligned}$ |
|  | SECTION-C ( 30 Marks) |  |  |  |  |
|  | Attempt any three questions: |  |  |  |  |
| 15. | The following table gives the data on the quantity demanded, price and income of a commodity for the period 1996 to 2005. <br> (a) Estimate the linear regression of the demand on the income. <br> (b) Compute $r^{2}$ and interpret the same. |  |  | 10 | $\begin{aligned} & \text { CO1, } \\ & \text { CO2, } \\ & \text { CO33 } \end{aligned}$ |



|  | 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. |  |  |
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| 19. | Give the suitable research design for the above case. Give reasons in support of your answer. | 10 | $\begin{aligned} & \mathrm{CO1}, \\ & \mathrm{CO}, \\ & \mathrm{CO3}, \\ & \mathrm{CO} \end{aligned}$ |
| 20. | Can you suggest a better design? | 10 | $\begin{aligned} & \mathrm{CO1}, \\ & \mathrm{CO}, \\ & \text { CO3, } \\ & \mathrm{CO} \end{aligned}$ |
| 21. | What are the main objectives of the study? | 10 | $\begin{aligned} & \mathrm{CO1}, \\ & \mathrm{CO2}, \\ & \mathrm{CO3}, \\ & \mathrm{CO} \\ & \hline \end{aligned}$ |

