Name:
Enrolment No:

# UNIVERSITY OF PETROLEUM \& ENERGY STUDIES 

 End Semester Examination (Online) - 8th July, 2020
## Set A

Program: MBA(OG+Core+BA)<br>Subject/Course: Business Research Methods<br>Course Code: (DSRM 7002)

Semester: II
Max. Marks: 100
Duration: 3 hours

## IMPORTANT INSTRUCTIONS

1. The student must write his/her name and enrolment no. in the separate answer sheet (document created by students). Do not include questions(in the answer sheet) while answering otherwise it will show copy under plagiarism
2. Create your answer sheet as MS Word document.
3. Save your document with your (name-last four digit sap ID-Prog.-RM) for example (Ankit-3476-OG-RM )
4. After attempting the questions in this document, the student has to upload this MS Word document on Blackboard.
5. Write all the answers in bullet points and bold your keyword in the statement.

|  | Attempt five questions in which Question 1-4 is compulsory | Marks | COs |
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| Q. 1 | a) Why \& When to do the literature review in qualitative research? Before, after <br> or during analysis? <br> b) Sometime the "correct" answer is not the best solution in hypothesis testing. <br> Explain with example. | 10 | CO1 |
| Q. 2 | (a) When do we use one-sample $z$ statistic instead of the one-sample t <br> statistic? <br> b) What are the characteristics of a good researcher and how can you practice <br> ethics in research as a habit? <br> c) Have you ever confronted any situation where you have found the <br> researcher is unethical? Explain the situation. | 6 | CO2 |


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|  | a) what is the significance of p-value and how it helps in taking decision <br> about Null Hypothesis? <br> b) Suppose we were interested in determining if there were differences in the <br> average prices between two local supermarkets. We randomly pick six items <br> to compare at both supermarkets. Which statistical procedure would be best <br> to use for this study and why? | 10 | CO2 |


|  | b) To test the hypothesis that eating fish makes one smarter, a random sample of 12 persons take a fish oil supplement for one year and then are given an IQ test. Here are the results: 116111101120999410611510710111092 <br> In order to test the hypotheses, Formulate null and alternate hypothesis, report the test statistic value with the P-value so as to summarize your conclusion and business interpretation. <br> Steps: <br> Hypotheses:? <br> H0: <br> Ha: <br> Test Statistic: <br> From the data, we obtain $\overline{\boldsymbol{x}}=\mathbf{1 0 6}$ and $\mathbf{s}_{\boldsymbol{x}}=\mathbf{8 . 8 3}$. Then we get $t=\frac{\bar{x}-\mu_{0}}{\frac{s_{x}}{\sqrt{n}}}=\frac{106-100}{\frac{8.83}{\sqrt{12}}}=\frac{6}{2.55}=2.35 .$ <br> P-value:? <br> Conclusion? <br> Business Interpretation? | 10 | CO4 |
| :---: | :---: | :---: | :---: |
| Q. 6 | A significance test for comparing two means gave $t=-1.97$ with 10 degrees of freedom. Can you reject the null hypothesis that the $\mu$ 's are equal versus the two-sided alternative at the 5\% significance level? Interpret the results based on following results. | 20 | CO4 |



