| Name: <br> Enrolment No: |  |  |  |
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| UNIVERSITY OF PETROLEUM \& ENERGY STUDIES <br> End Semester Examination - MAY 2022 |  |  |  |
| Program:BBA -ABD-IV  <br> Semester:IV  <br> Subject/Course: ADVANCED STATISTICS Max. Marks: 100 <br> Course Code: DSQT2004 Duration: 3 Hours |  |  |  |
| Q.No | Section A(multiple choice question) | Marks | COs |
| Q1. | i) Which of the following are types of correlation? <br> a. Positive and Negative <br> b. Simple, Partial and Multiple <br> c. Linear and Nonlinear <br> d. All of the above <br> ii)If the values of two variables move in the same direction, $\qquad$ <br> a. The correlation is said to be non-linear <br> b. The correlation is said to be linear <br> c. The correlation is said to be negative <br> d. The correlation is said to be positive <br> iii) In a Binomial Distribution, if $\mathrm{p}, \mathrm{q}$ and n are probability of success, failure and number of trials respectively then variance is given by <br> a. np <br> b. npq <br> c. $n p^{2} \mathrm{q}$ <br> d. $n p q^{2}$ <br> iv) Binomial Distribution is a $\qquad$ <br> a. Continuous distribution <br> b. Discrete distribution <br> c. Irregular distribution <br> d. Not a Probability distribution <br> v) Of the following sampling methods, which is a probability method? <br> a. Judgement <br> b. Quota | $2 * 10=20$ | CO1 |


|  | c. Simple random <br> d. Convenience <br> vi) Increasing the sample size has the following effect upon the sampling error? <br> a. It increases the sampling error <br> b. It reduces the sampling error <br> c. It has no effect on the sampling error <br> d. All of the above <br> vii) The weights used in a quantity index are $\qquad$ <br> a. Quantity <br> b. Values <br> c. Price <br> d. None of the above <br> viii) Fisher's method of calculating the index number is based on the $\qquad$ <br> a. Geometric mean <br> b. Arithmetic mean <br> c. Harmonic mean <br> d. None of the above <br> ix) Sample is regarded as a subset of? <br> a. Data <br> b. Set <br> c. Distribution <br> d. Population <br> x) The difference between a statistic and the parameter is called: <br> a. Non-random <br> b. Probability <br> c. Sampling error <br> d. Random |  |  |
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| Q2. | Section : B | 5*4=20 | CO 2 |
|  | i) Calculate the spearman's rank correlation coefficient of the data. |  |  |




