


Name: Enrolment No:		
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Online End Semester Examination, May 2021		
Course: Business Analytics Program: MBA Business Analytics Course Code: DSBA 7005		Semester: II Time 03 hrs. Max. Marks: 100
SECTION A 1. Each Question will carry 5 Marks 2. Instruction: Complete the statement / Select the correct answer(s)		
S. No.	Questions	CO
Q1	What is Business Analytics? a) Refers to the skills, technologies, practices for continuous iterative exploration and investigation of past business performance to gain insight and drive business planning. b) Refers to all the methods and techniques that are used by an organization to measure performance. c) Refers the practice of iterative, methodical exploration of an organization's data, with an emphasis on statistical analysis. d) All of the above e) None of the above	CO1
Q2	Which of the following is NOT a step in data cleansing? a) Parsing b) Correcting c) Matching d) Transmitting	CO2
Q3	Amongst the below roles, identify the most important role player in an analytics project. a) Data Scientist b) Data Engineer c) Database Administrator d) Business Analyst e) Project Manager	CO2
Q4	What are the four types of data associated with Data Warehousing? Three of them are given. Identify the last one.	CO3

	a) Subject-oriented Data b) Integrated Data c) Non-volatile Data d) ??									
Q5	What is the value of Y for the below linear regression equation? The equation is $Y = mX + C$ <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Y</th> <th>X</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>2</td> </tr> <tr> <td>11</td> <td>4</td> </tr> <tr> <td>??</td> <td>12</td> </tr> </tbody> </table>	Y	X	7	2	11	4	??	12	CO4
Y	X									
7	2									
11	4									
??	12									
Q6	Identify the incorrect method for missing data handling a) Listwise deletion b) Pairwise deletion c) Variable deletion d) None of the above	CO2								
SECTION B 1. Each Question will carry 10 Marks 2. Instruction: Write short or Brief Notes										
Q7	Differentiate between data lake versus data mart versus data warehouse.	CO1								
Q8	What are the differences between list wise deletion, pair wise deletion, and variable deletion? Explain with examples.	CO3								
Q9	What is outlier detection? How do we use box plot, scatter plot and histogram to detect outliers.	CO4								
Q10	Mention and explain the two features of forecasting using time-series models.	CO3								
Q11	What are constrained versus unconstrained problems in non-linear programming? OR What is predictive and descriptive analytics? How do predictive and descriptive analytics lead to prescriptive analytics?	CO4								
SECTION C 1. Each Question will carry 20 Marks 2. Instruction: Write long answers										
Q12	What are the five steps in data cleansing? Explain each step with proper example. OR What are the steps in a simulation study? Explain with flow chart.	CO4								