

Name:  
Enrolment No:



**UNIVERSITY OF PETROLEUM & ENERGY STUDIES**  
**End Semester Examination (Online) – July, 2020**

**Program: MBA – Open elective**  
**Subject/Course: Spreadsheet modeling**  
**Course Code: GMDS7201**

**Semester : II**  
**Max. Marks: 100**  
**Duration : 3 Hours**

**IMPORTANT INSTRUCTIONS**

1. The student must write his/her name and enrolment no. in the space designated above.
2. The questions have to be answered in this MS Word document.
3. After attempting the questions in this document, the student has to upload this MS Word document on Blackboard.

		Marks	COs														
Q.1	The untrimmed data collected in a business is not of much help in decision-making. In order to make the data useful in decision-making and to build models based on the data, it is necessary to clean the data before spreadsheet modeling. Mention the advantage for a business by leveraging on data for making better decisions.	20	CO3														
Q.2	<table border="1" style="display: inline-table; margin-bottom: 10px;"> <tr><td>Cost</td><td>\$ 1,100,000.00</td></tr> <tr><td>Rate</td><td>15%</td></tr> <tr><td>Life</td><td>40</td></tr> <tr><td>Probabilit</td><td>50%</td></tr> <tr><td>CF</td><td>\$ 250,000.00</td></tr> <tr><td>CF with Pr</td><td>\$ 125,000.00</td></tr> <tr><td>NPV</td><td>(\$269,777.70)</td></tr> </table> <p>Discuss the scenario for the following situations in what-if analysis*</p> <p>a) What happens if we can have better financing deal and thereby can reduce cost of capital to 20% but cash flows are expected to be 70% and project cost comes down by 4%?</p> <p>b) What happens if the cost of capital goes up to 18%, cash flows will happen at 60% probability and the cost of project goes up by 9%?</p> <p>You need not use the MS Excel what-if tool to answer this question.</p>	Cost	\$ 1,100,000.00	Rate	15%	Life	40	Probabilit	50%	CF	\$ 250,000.00	CF with Pr	\$ 125,000.00	NPV	(\$269,777.70)	20	CO3
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Q.3	You are an intern at a firm and you are asked to predict the growth rate for the firm for June, 2021. You are given the profits and sales data of	20	CO4														

	the firm for the past 60 months. Mention the approach to predict the growth rate and also write the model building approach to predict the required numbers.		
Q.4	Doon consulting has invited proposals for the new project in which the company will study the impact of Covid 19 on the sale of two wheeler vehicles. The consulting firm has published on their website to submit a proposal and the firm will chose one proposal to implement the project. You are interested in submitting the proposal and you have started to build a model to study the impact of Covid 19 on the sale of two wheeler vehicles. What are the key areas on which you need to focus while preparing the required model for the consulting firm?	20	CO4
Q.5	You attended a conference in which the presenter had shown regression output for predicting the number of road accidents in a district based on the population of that district. The presenter ran simple regression model and draw implications for the district management. You are skeptical about the simple regression model and you are going to share your feedback with district management explaining the limitations of the presented model. Draft a response to the district administration and propose a new model.	20	CO4

**ANSWERS**