

Name:

Enrolment No:



**UNIVERSITY OF PETROLEUM & ENERGY STUDIES
DEHRADUN**

End-Semester Examination 2019

Program/course : MA Economics (EE)

Semester : IV

Subject : Model Building and Simulation

Max. Marks : 100

Code : ECON 8005

Duration : 3 Hrs

No. of page/s : 4

Section A (attempt all)

Q1. Define the following in **one** sentence.

i.	Predictive Relationships	[2]	CO1
ii.	Causal Relationships	[2]	CO1
iii.	Grounded Theory	[2]	CO1
iv.	Theory Construction	[2]	CO1
v.	Outcome Variable	[2]	CO1
vi.	Complete Mediation	[2]	CO1
vii.	Partial Mediation	[2]	CO1
viii.	Direct Effects	[2]	CO1
ix.	Indirect Effects	[2]	CO1
x.	Reciprocal Causality	[2]	CO1

SECTION B**Answer any four questions**

Q2.	What is the difference between a categorical and a quantitative variable?	[5]	CO3, CO4
Q3.	Describe the hypothetical scatterplot heuristic for focusing a relationship between quantitative variables.	[5]	CO3, CO4
Q4.	Draw a scatterplot that shows a positive direct linear relationship; draw one that shows an inverse linear relationship.	[5]	CO3, CO4
Q5.	Draw a graph with two linear relationships on it, but one with a stronger effect as reflected by the slopes.	[5]	CO3, CO4
Q6.	Distinguish between causal and predictive relationships.	[5]	CO3, CO4

SECTION C**Answer any two questions**

2 X 15 = 30

Q7.	What are some of the reasons why a theorist might prefer working with linear rather than nonlinear relationships?	[15]	CO1, CO4
Q8.	Describe the hypothetical contingency table approach to focusing the relationship between two categorical variables. Include in your discussion how you would derive theoretical propositions from the table.	[15]	CO3, CO4
Q9.	Identify and define the six basic types of relationships in causal models and give an example of each.	[15]	CO3, CO4

Section D

	Answer the question	1 X 30 = 30	
Q10.	Construct a causal theory. Include a path diagram of it and an accompanying narrative describing it. Give precise and clear conceptual definitions of each variable.	[30]	CO1, CO3, CO4



Name of Examination (Please tick, symbol is given)	:	MID	NA	END	<input type="checkbox"/>	SUPPL E	NA
Name of the College	:	SOE	NA	SOB	<input type="checkbox"/>	SOL	NA

(Please tick, symbol is given)						
Program/Course	:	MA Economics (EE)				
Semester	:	Semester IV				
Name of the Subject	:	Model Building and Simulation				
Subject Code	:	ECON 8005				
Name of Question Paper Setter	:	Dr. Narendra Nath Dalei				
Employee Code	:	40001143				
Mobile & Extension	:	9997135366				
FOR SRE DEPARTMENT (OPTIONAL)						
Date of Examination	:					
Time of Examination	:					
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Note: - Pl. start your question paper from next page

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Section A (attempt all)

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i.	Model	[2]	CO1
ii.	Simulation	[2]	CO1
iii.	Partial Mediation	[2]	CO1
iv.	Theory Construction	[2]	CO1
v.	Outcome Variable	[2]	CO1
vi.	Complete Mediation	[2]	CO1
vii.	Predictive Relationships	[2]	CO1
viii.	Direct Effects	[2]	CO1
ix.	Indirect Effects	[2]	CO1
x.	Reciprocal Causality	[2]	CO1

SECTION B**Answer any four questions**

Q2.	Distinguish between causal and predictive relationships. Describe with example.	[5]	CO3, CO4
Q3.	Describe the hypothetical scatterplot heuristic for focusing a relationship between quantitative variables.	[5]	CO3, CO4
Q4.	Draw a scatterplot that shows a positive direct linear relationship; draw one that shows an inverse linear relationship.	[5]	CO3, CO4
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Q6.	What is the difference between a categorical and a quantitative variable? Describe with example.	[5]	CO3, CO4

SECTION C**Answer any two questions**

2 X 15 = 30

Q7.	Identify and define the six basic types of relationships in causal models and give an example of each.	[15]	CO1, CO4
Q8.	Describe the hypothetical contingency table approach to focusing the relationship between two categorical variables. Include in your discussion how you would derive theoretical propositions from the table.	[15]	CO3, CO4
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Section D**Answer the question**

1 X 30 = 30