



TENTAMEN / EXAMINATION



12307683

Fylls i av **student** / To be completed by the **student**

Skriv anonymiseringskoden på samtliga svarsblad / Write your anonymity code on each sheet		Anonymiseringskod / Anonymity code	
		N E G C 1 6 - 0 0 1 1 - S L E	
Provbemärkning / Exam name			Oanmäld
Tentamen			
Kurskod / Course code	Modul / Module	Tentamensdatum / Examination date	
N E G C 1 6	1 0 0 0	2 0 2 1 - 1 1 - 0 1	
Jag har tagit del av regler som gäller vid tentamen / I have read the current rules for examinations		Antal inlämnade blad med anonymiseringskod / Number of sheets with anonymity code	
<input checked="" type="checkbox"/> Ja / Yes		5	

Fylls i av **skrivvakt** / To be completed by the **invigilator**

Kontroll av legitimation / Identification checked	<input checked="" type="checkbox"/> Ja / Yes	Härmed intygas att kontroller utförts / This is to certify that the checks have been carried out
Kontroll av inlämnade blad / Answer sheets checked	<input type="checkbox"/> Ja / Yes	
Inlämningstid / Time of submission	15:50	Tydlig sign. / Signature AM

Fylls i av **lärare** / To be completed by the **examiner**

Bedömning av uppgifter / Questions attempted										
1	2	3	4	5	6	7	8	9	10	~
2,8	3,2	4	2,4	3,4						
11	12	13	14	15	16	17	18	19	20	~
21	22	23	24	25	26	27	28	29	30	~
Totalt antal poäng / Total points					Examin. lärare / Kursansvarig signatur / Signature of the examiner					
15,8										
Betyg / Grade					Namnförtydligande / Clarification of the signature					
VG					K. Staal					

12307683



Försättsbladet ska alltid lämnas in även om ingen uppgift behandlats /
Examination should always be submitted even if no questions are answered

Löpande sidnr Consecutive no.:	1
Uppgift nr / Question no.:	1
Poäng / Points awarded:	
Lärarens anteckning	
Examiner's remarks:	

<p>Ange anonymitetskod / Write your anonymity code (Vid icke anonym tentamen ange kurskod + namn + personnummer) (For non-anonymous exams write the course code + name + civic registration number)</p> <p>NEG16-0011-SLE</p>	<p>a) The dependent variable is the probit which is an index for the probability of being in the labor force. If the probit lies between zero and one. if probit is higher than 0,5 we can assume person is in labor.</p> <p>b) $Z = 2,184$, $z_{critical} = 1,96$ $2,184 > 1,96$ The test statistic is outside the confidence interval which means that "years of experience" has an effect statistically different from zero.</p> <p>c) Intercept = 0 = Probit $0 + Y_2 = 0,5$ The probability is 50% or 0,5.</p> <p>d) One year of labor market experience increase the Probit with 0,013. The sign is positive meaning it has a positive effect on the probability.</p> <p>e) $z = 2,184$ $z = 2,184$ $z = 2,184$</p>
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0,4

0,8

0,8

0,8

0



Skriv ej i detta område
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Häftområde

Löpande sidnr Consecutive no.: 2	Uppgift nr / Question no.: 2	Poäng / Points awarded: 0,8	Lärarens anteckning Examiner's remarks: 0,8	0,8
Ange anonymitetskod / Write your anonymity code (Vid icke anonym tentamen ange kurskod + namn + personnummer) (For non-anonymous exams write the course code + name + civic registration number) NEGC16-001-SLE		a) $Y_t = \alpha + \beta_0 X_t + \beta_1 X_{t-1} + \beta_2 X_{t-2} + \dots + \epsilon_t$ ✓	b) Multicollinearity and problems with parameters being non-linear. ✓	c) It is a purely Mathematic model and it has no support in Economic theory. ✓
d) Parameter estimate: 0,122 The sign of the estimate is positive. This means that being asian has a positive effect on graduation rate. ✓		e. v) 18 ✓ v) 23 ✓ v) 28 ✓ v) 31 ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓

Häftområde

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Löpande sidnr Consecutive no.: 3	Uppgift nr / Question no.: 3	Poäng / Points awarded:	Lärens anteckning Examiner's remarks:
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<p>NEGCI6-0011-SLE</p> <p>Ange anonymitetskod / Write your anonymity code (Vid icke anonym tentamen ange kurskod + namn + personnummer) (For non-anonymous exams write the course code + name + civic registration number)</p>	<p>a) Ordinary least squares (OLS).</p> <p>b) test statistic: -2, critical $t_{n-1}^{5\%} = -3,45$</p> <p>Model represents a random walk around a deterministic trend. This leads to a critical tva of -3,45.</p> <p>-2 > -3,45</p> <p>test statistic is not less than critical tva.</p> <p>HO can therefore not be rejected and we can conclude that the data is nonstationary.</p> <p>c) $\Delta GDP_t = \beta_0 + \beta_1 \Delta GDP_{t-1} + \beta_2 \Delta GDP_{t-2} + \beta_3 \Delta GDP_{t-3}$</p> <p>d) ?</p> <p>$GDP_{2020} = \beta_0 + \beta_1 GDP_{1999} + \beta_2 M_{1999} + u_t$</p> <p>$M_{1999} = \beta_3 + \beta_4 GDP_{1999} + \beta_5 M_{1999} + u_t$</p>	<p>0,8</p> <p>0,8</p> <p>0,8</p> <p>0,8</p> <p>0,8</p> <p>0,8</p>	<p>8</p> <p>8</p> <p>8</p> <p>8</p> <p>8</p> <p>8</p>
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Häftområde



Löpande sidnr Consecutive no.:	4
Uppgift nr / Question no.:	4
Poäng / Points awarded:	
Lärarens anteckning	
Examiners remarks:	

<p>Ange anonymitetskod / Write your anonymity code (Vid icke anonym tentamen ange kurskod + namn + personnummer) (For non-anonymous exams write the course code + name + civic registration number)</p> <p>NEG616-0011-SLE</p>	<p>a) They are exactly identifiable.</p> <p>Both structural equations exclude one variable. demand exclude Q_{t-1} and supply exclude I_t.</p> <p>Since P_t is endogenous the structural equations will have the same amount of parameters as the reduced form.</p> <p>b) $Q_t = \pi_0 + \pi_1 Q_{t-1} + \pi_2 I_t + v_t$ $P_t = \pi_3 + \pi_4 Q_{t-1} + \pi_5 I_t + v_t$</p> <p>c) The model is a fixed effect least squared dummy variable model. This is a one way fixed effect model. Since the data is not demeaned.</p> <p>d) Hausman test. H_0: there is no simultaneity in the model.</p> <p>e) $X_{11} = 51$ $X_{12} = 55$ $X_{13} = 59$ $X_{14} = 62$</p>	<p>0.8</p> <p>0.8</p> <p>0.8</p> <p>0.8</p> <p>0.8</p>
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Häftområde



Löpande sidnr Consecutive no:	5
Uppgift nr / Question no:	5
Poäng / Points awarded:	
Lärarens anteckning	
Examiners remarks:	

Ange anonymitetskod / Write your anonymity code
 (Vid icke anonym tentamen ange kurskod + namn + personnummer)
 (For non-anonymous exams write the course code + name + civic registration number)

NEGC16-0011-SLE

a) $total = L / (1 + e^{-(log-m)}) / S$

b) The second parameter is statistically different from zero since zero is not within the confidence interval. In fact all the parameters are significant.

c) Endogenous: Y_{2t}, Y_{2t-1}, X_{2t}
 Predetermined: $Y_{2t-2}, Y_{2t-1}, X_{2t-2}$

d) OLS can not be used to estimate the models. On simultaneous equation LIS or 2SLS is possible. OLS can be used on the reduced form but that would be called indirect least squares. (LIS)

e) $X_{2t} = 66$
 $X_{2t} = 70$
 $X_{2t} = 76$
 $X_{2t} = 77$



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Häftområde